abcam

Product datasheet

Anti-PELP1 antibody [EPR15213] - BSA and Azide free ab251303

Recombinant RabMAb

15 Images

Overview

Product name	Anti-PELP1 antibody [EPR15213] - BSA and Azide free
Description	Rabbit monoclonal [EPR15213] to PELP1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, Flow Cyt (Intra), IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	ab251303 is the carrier-free version of **ab200203**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15213
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab251303 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

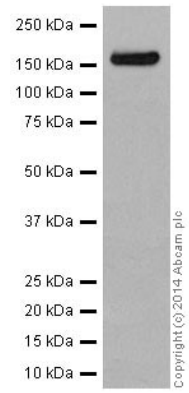
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 160 kDa (predicted molecular weight: 120 kDa).
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

Target

Function	Coactivator of estrogen receptor-mediated transcription and a corepressor of other nuclear hormone receptors and sequence-specific transcription factors. Plays a role in estrogen receptor (ER) genomic activity when present in the nuclear compartment by activating the ER target genes in a hormonal stimulation dependent manner. Can facilitate ER non-genomic signaling via SRC and PI3K interaction in the cytosol. Plays a role in E2-mediated cell cycle progression by interacting with RB1. May have important functional implications in ER/growth factor cross-talk. Interacts with several growth factor signaling components including EGFR and HRS. Involved in nuclear receptor signaling via its interaction with AR and NR3C1. May promote tumorigenesis via its interaction with and modulation of several oncogenes including SRC, PI3K, STAT3 and EGFR. Plays a role in cancer cell metastasis via its ability to modulate E2-mediated cytoskeleton changes and cell migration via its interaction with SRC and PI3K.
Tissue specificity	Isoform 2 is expressed in breast cancer cell lines. Isoform 1 is widely expressed.
Domain	The Glu-rich region mediates histones interaction. The Leu-Xaa-Xaa-Leu-Leu (LXXLL) motifs are required for the association with nuclear receptor ESR1.

Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus. Cytoplasm. Also found associated with the plasma membrane. Mainly in cytoplasm in a subset of breast tumors. Localization is widely deregulated in endometrial cancers with predominantly cytoplasm localization in high-grade endometrial tumors.

Images



Western blot - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

Anti-PELP1 antibody [EPR15213] (**ab200203**) at 1/1000 dilution + HEK-293 (Human epithelial cells from embryonic kidney) cell lysate at 20 µg

Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

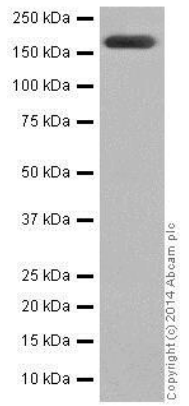
Predicted band size: 120 kDa
Observed band size: 160 kDa

Exposure time: 15 seconds

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature, PMID: 16141397.



Western blot - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

Anti-PELP1 antibody [EPR15213] (**ab200203**) at 1/10000 dilution + HeLa (Human epithelial cells from cervix adenocarcinoma) cell lysate

Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

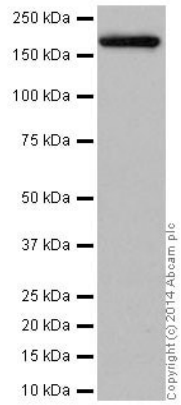
Predicted band size: 120 kDa
Observed band size: 160 kDa

Exposure time: 30 seconds

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature (PMID: 16141397).



Western blot - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

Anti-PELP1 antibody [EPR15213] (**ab200203**) at 1/1000 dilution + Human fetal brain lysate at 20 µg

Secondary
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

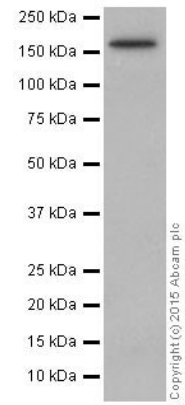
Predicted band size: 120 kDa
Observed band size: 160 kDa

Exposure time: 3 minutes

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature, PMID: 16141397.



Western blot - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

Anti-PELP1 antibody [EPR15213] (**ab200203**) at 1/20000 dilution + Human breast cancer lysate at 10 µg

Secondary
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

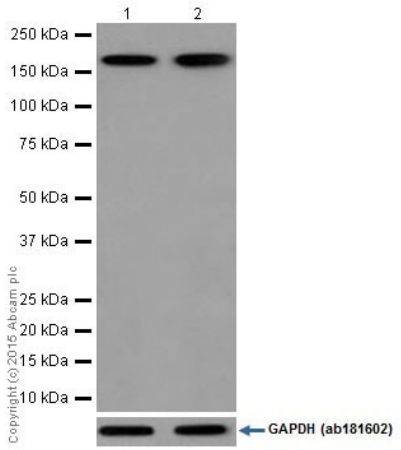
Predicted band size: 120 kDa
Observed band size: 160 kDa

Exposure time: 3 minutes

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature (PMID: 16141397).



Western blot - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

All lanes : Anti-PELP1 antibody [EPR15213] (**ab200203**) at 1/20000 dilution

Lane 1 : T-47D (Human ductal breast epithelial tumor cell line) cell lysate
Lane 2 : MCF7 (Human breast adenocarcinoma cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

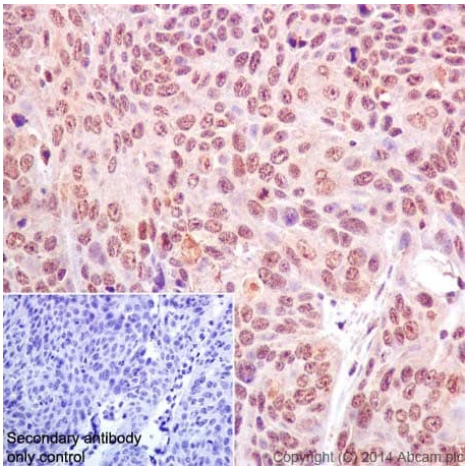
Predicted band size: 120 kDa
Observed band size: 160 kDa

Exposure time: 10 seconds

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

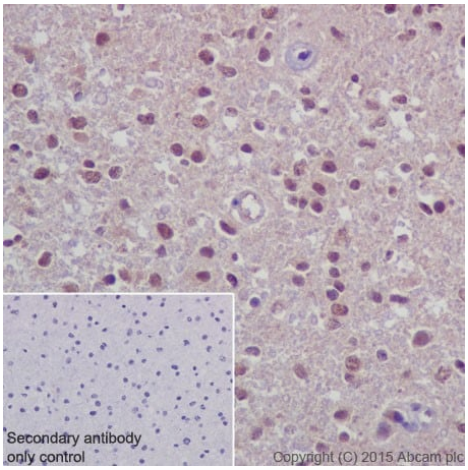
The expression profile observed is consistent with what has been described in the literature (PMID: 16141397).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

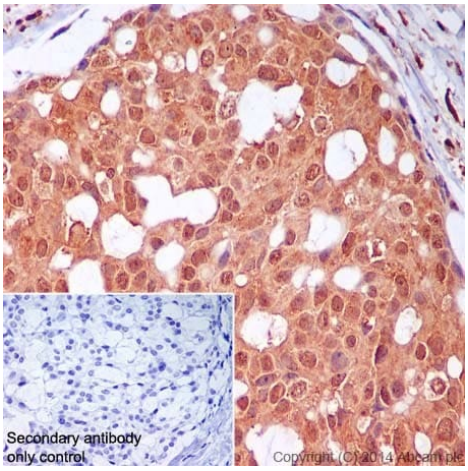
Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma tissue labeling PELP1 with **ab200203** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and weakly cytoplasm staining on Human cervix carcinoma tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

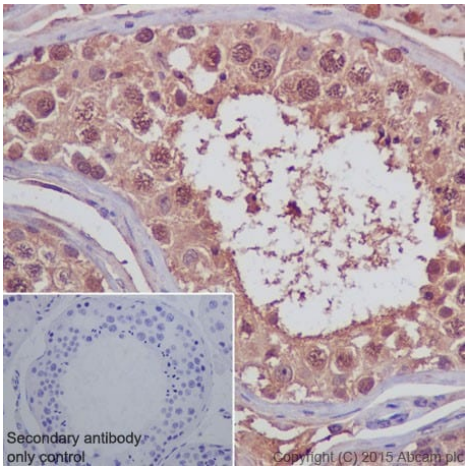
Immunohistochemical analysis of paraffin-embedded Human astrocytoma tissue labeling PELP1 with **ab200203** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and weakly cytoplasm staining on Human astrocytoma tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

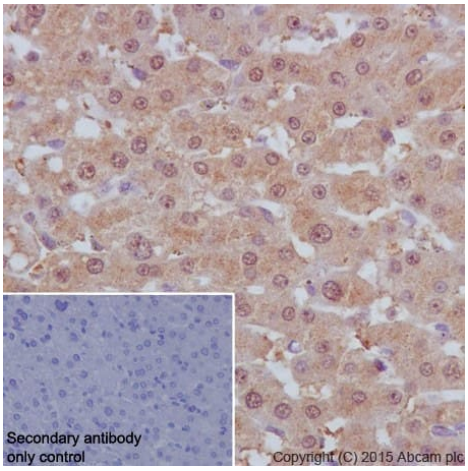
Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling PELP1 with **ab200203** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and cytoplasm staining on Human breast carcinoma tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

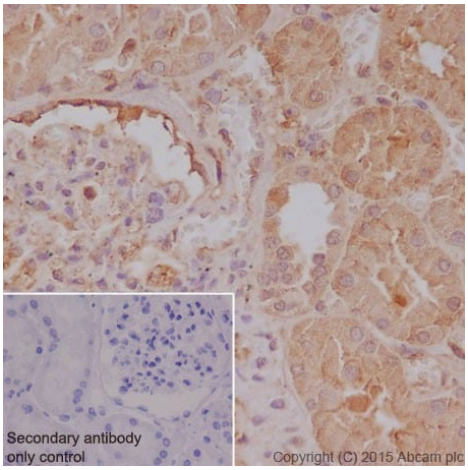
This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling PELP1 with **ab200203** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and cytoplasm staining on Human testis tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



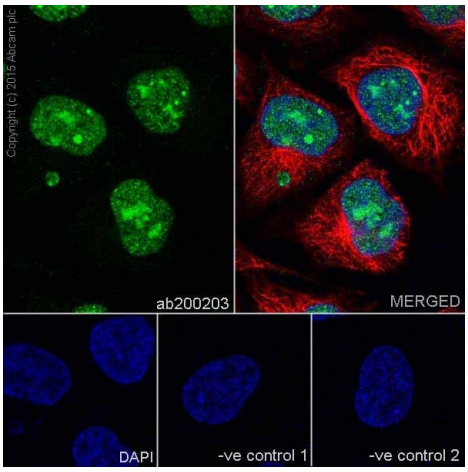
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling PELP1 with **ab200203** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and cytoplasm staining on Human liver tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



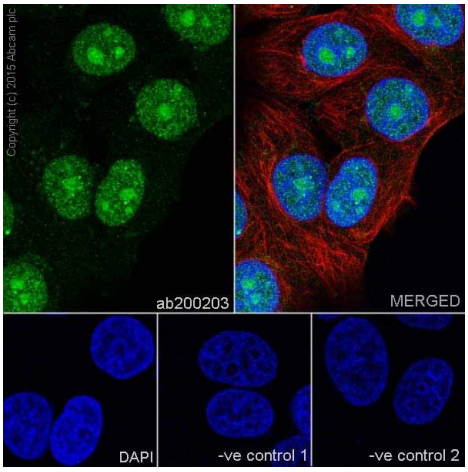
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling PELP1 with **ab200203** at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear and cytoplasm staining on Human kidney tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



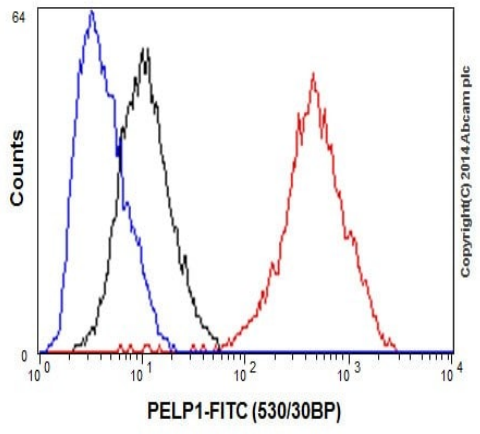
Immunocytochemistry/ Immunofluorescence - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling PELP1 with **ab200203** at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Nuclear staining on HeLa cell line is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).The negative controls are as follows:
-ve control 1: **ab200203** at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

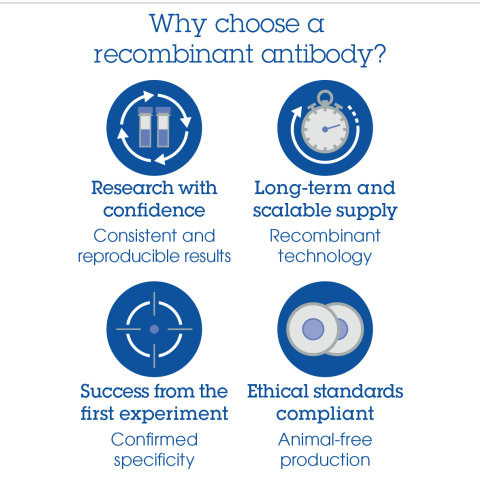
This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF7 (Human breast adenocarcinoma cell line) cells labeling PELP1 with **ab200203** at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Nuclear and weakly cytoplasmic staining on MCF7 cell line is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).The negative controls are as follows:
-ve control 1: **ab200203** at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Flow Cytometry (Intracellular) - Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

This data was developed using **ab200203**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling PELP1 with **ab200203** at 1/300 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.



Anti-PELP1 antibody [EPR15213] - BSA and Azide free (ab251303)

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