abcam

Product datasheet

Anti-APPL antibody [EPR13569] ab180140

Recombinant RabMAb

6 References 6 Images

Overview

Product name	Anti-APPL antibody [EPR13569]
Description	Rabbit monoclonal [EPR13569] to APPL
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human APPL aa 400-500 (internal sequence). The exact sequence is proprietary. Database link: **Q9UKG1**
Positive control	WB: HeLa, MCF7 and 293 lysates. IHC-P: Human colonic carcinoma and Human pancreas tissue. ICC: MCF7 cells.
General notes	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number	EPR13569
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab180140 in the following tested applications.

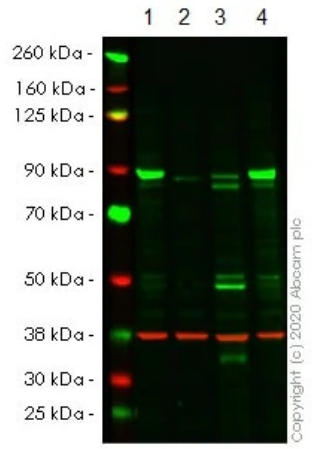
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000 - 1/10000. Detects a band of approximately 90 kDa (predicted molecular weight: 80 kDa).
ICC/IF		1/250.
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Required for the regulation of cell proliferation in response to extracellular signals from an early endosomal compartment. Links Rab5 to nuclear signal transduction.
Tissue specificity	High levels in heart, ovary, pancreas and skeletal muscle.
Sequence similarities	Contains 1 PH domain. Contains 1 PID domain.
Domain	Overexpression of an N-terminal domain (residues 1-319) or a C-terminal region (residues 273-709) has a proapoptotic effect.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Early endosome membrane. Nucleus. Early endosomal membrane-bound and nuclear. Translocated into the nucleus upon release from endosomal membranes following internalization of EGF.

Images



Western blot - Anti-APPL antibody [EPR13569] (ab180140)

All lanes : Anti-APPL antibody [EPR13569] (ab180140) at 1/10000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : APPL CRISPR/Cas9 edited HeLa cell lysate
Lane 3 : MCF7 cell lysate
Lane 4 : HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

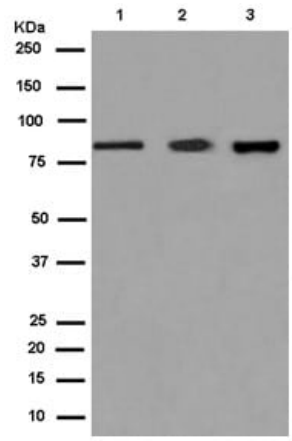
Performed under reducing conditions.

Predicted band size: 80 kDa
Observed band size: 90 kDa

Lanes 1- 4: Merged signal (red and green). Green - ab180140 observed at 90 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

ab180140 was shown to react with Anti-APPL in wild-type HeLa cells in western blot. The band observed in CRISPR/Cas9 edited cell line **ab265187** (CRISPR/Cas9 edited cell lysate **ab257836**) lane below 90kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type HeLa and APPL1 CRISPR/Cas9 edited HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab180140 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000

dilution for 1 hour at room temperature before imaging.



Western blot - Anti-APPL antibody [EPR13569] (ab180140)

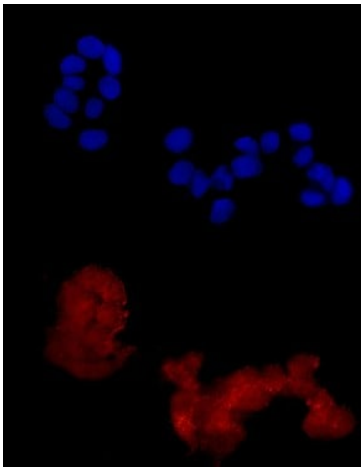
All lanes : Anti-APPL antibody [EPR13569] (ab180140) at 1/10000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : MCF7 cell lysate
Lane 3 : 293 cell lysate

Lysates/proteins at 20 µg per lane.

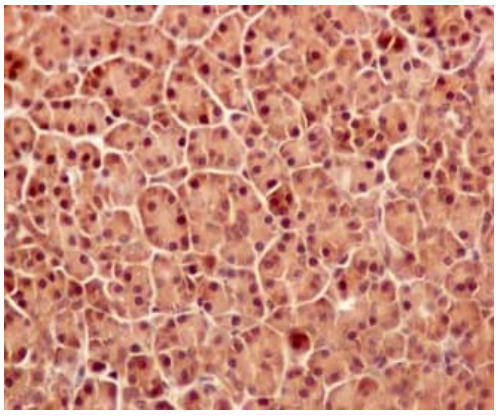
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 80 kDa
Observed band size: 90 kDa



Immunocytochemistry/ Immunofluorescence - Anti-APPL antibody [EPR13569] (ab180140)

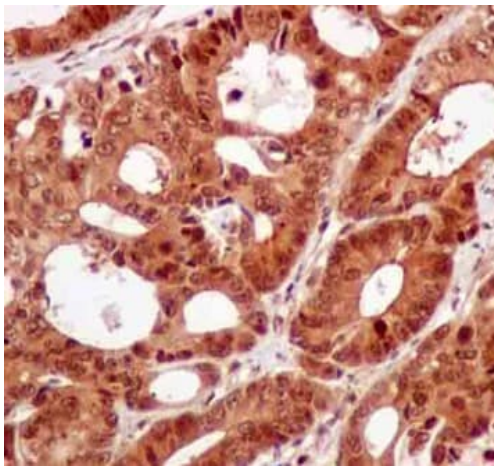
Immunofluorescent analysis of 4% paraformaldehyde fixed MCF7 cells labeling APPL with ab180140 at 1/500 dilution. Secondary antibody Goat anti rabbit IgG(Dylight 555) Conterstained with Dapi blue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-APPL antibody [EPR13569] (ab180140)

Immunohistochemical analysis of paraffin-embedded Human pancreas carcinoma tissue labeling APPL with ab180140 at 1/100 dilution. Secondary antibody Goat anti rabbit IgG(HRP) prediluted. Counter stain Hematoxylin.

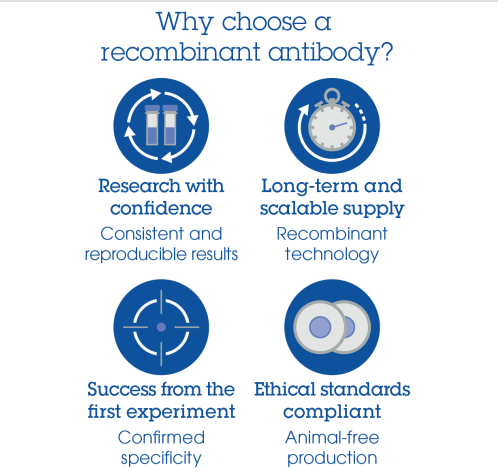
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-APPL antibody [EPR13569] (ab180140)

Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labeling APPL with ab180140 at 1/100 dilution. Secondary antibody Goat anti rabbit IgG(HRP) prediluted. Counter stain Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Anti-APPL antibody [EPR13569] (ab180140)

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