

Product datasheet

Anti-UHRF1 antibody [EPR18803-11] ab213223

Recombinant RabMAb

★★★★★ 2 Abreviews 2 References 9 Images

Overview

Product name	Anti-UHRF1 antibody [EPR18803-11]
Description	Rabbit monoclonal [EPR18803-11] to UHRF1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, Flow Cyt, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human colon and spleen lysates; HeLa, Jurkat, HepG2. IHC-P: Human tonsil and colon cancer tissues. ICC/IF: Jurkat and HeLa cells. Flow Cyt: Jurkat cells. IP: HeLa whole cell lysate.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR18803-11
Isotype IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab213223 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)	1/1000. Detects a band of approximately 97 kDa (predicted molecular weight: 89 kDa).
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Recommended for human only
ICC/IF		1/500. Recommended for human only
Flow Cyt		1/70.
IP		1/30.

Target

Function Putative E3 ubiquitin-protein ligase. May participate in methylation-dependent transcriptional regulation. Binds to inverted 5'-CCAAT-3' box 2 in the TOP2A promoter, and activates TOP2A expression. Important for G1/S transition. May be involved in DNA repair and chromosomal stability.

Tissue specificity Expressed in thymus, bone marrow, testis, lung and heart. Overexpressed in breast cancer.

Pathway Protein modification; protein ubiquitination.

Sequence similarities Contains 1 PHD-type zinc finger.
Contains 2 RING-type zinc fingers.
Contains 1 ubiquitin-like domain.
Contains 1 YDG domain.

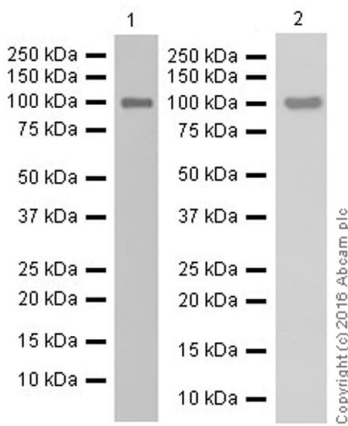
Developmental stage Expressed in fetal thymus, liver and kidney.

Domain The RING finger is required for ubiquitin ligase activity.
The YDG domain mediates the interaction with histone H3.

Post-translational modifications Phosphorylated on serine residues. Phosphorylation may enhance DNA-binding activity.
Ubiquitinated; which leads to proteasomal degradation. Polyubiquitination may be stimulated by DNA damage.

Cellular localization Nucleus.

Images



Western blot - Anti-UHRF1 antibody [EPR18803-11] (ab213223)

All lanes : Anti-UHRF1 antibody [EPR18803-11] (ab213223) at 1/1000 dilution

Lane 1 : Human colon lysate

Lane 2 : Human spleen lysate

Lysates/proteins at 20 µg per lane.

Secondary

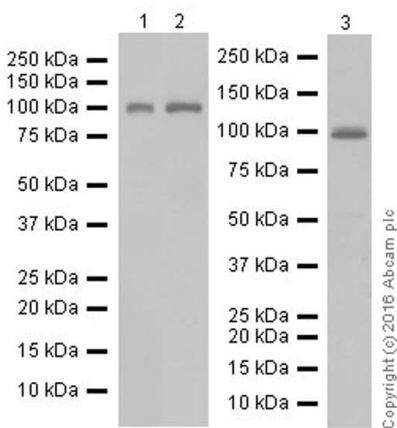
All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/100000 dilution

Predicted band size: 89 kDa

Observed band size: 97 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-UHRF1 antibody [EPR18803-11] (ab213223)

All lanes : Anti-UHRF1 antibody [EPR18803-11] (ab213223) at 1/5000 dilution

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 3 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

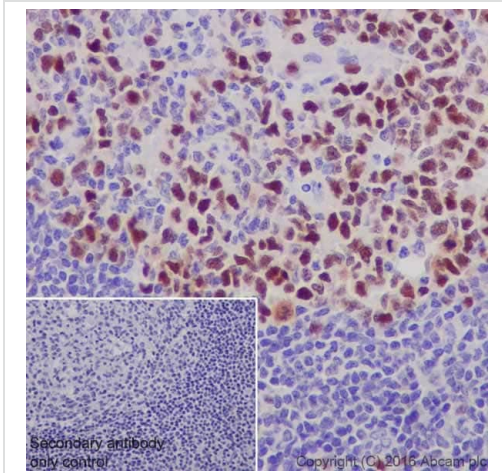
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 89 kDa

Observed band size: 97 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1 and 2:5 seconds; Lane 3: 30 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UHRF1 antibody [EPR18803-11] (ab213223)

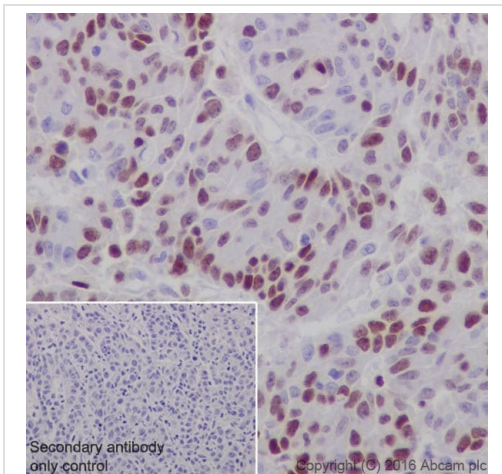
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling UHRF1 with ab213223 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Nucleus staining on Human tonsil germinal center is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UHRF1 antibody [EPR18803-11] (ab213223)

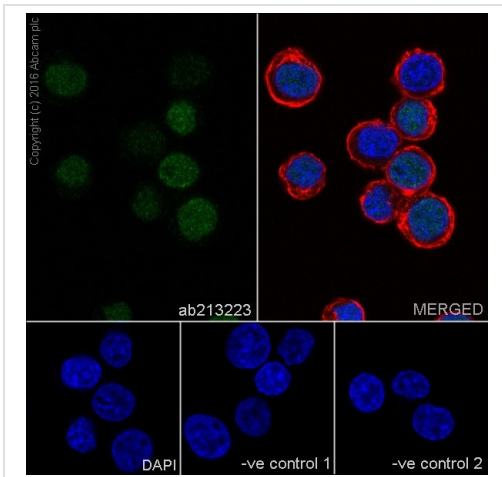
Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue labeling UHRF1 with ab213223 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Nucleus staining on Human colon cancer is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

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



Immunocytochemistry/ Immunofluorescence - Anti-UHRF1 antibody [EPR18803-11] (ab213223)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cell line from peripheral blood) cells labeling UHRF1 with ab213223 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor®488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing nuclear staining on HeLa cell line.

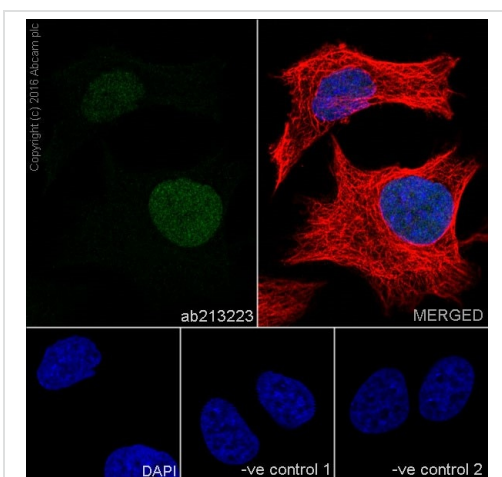
The nuclear counterstain is DAPI (blue).

Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (Goat anti-Mouse IgG (Alexa Fluor® 594)) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab213223 at 1/500 dilution followed by ab150120 at 1/1000 dilution.

-ve control 2: ab7291 at 1/1000 dilution followed by ab150077 at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-UHRF1 antibody [EPR18803-11] (ab213223)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling UHRF1 with ab213223 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor®488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing nuclear staining on HeLa cell line.

The nuclear counterstain is DAPI (blue).

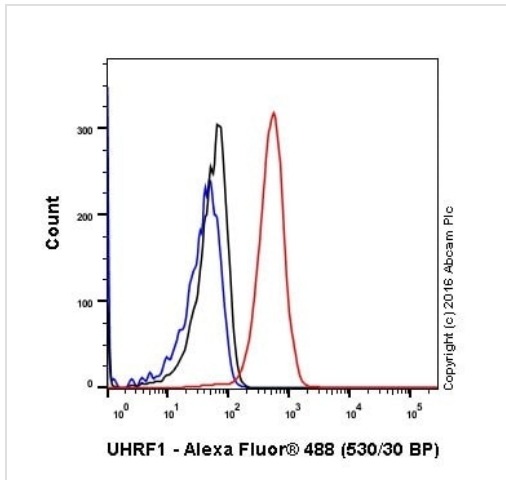
Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (Goat anti-Mouse IgG (Alexa Fluor® 594)) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab213223 at 1/500 dilution followed by ab150120 at 1/1000 dilution.

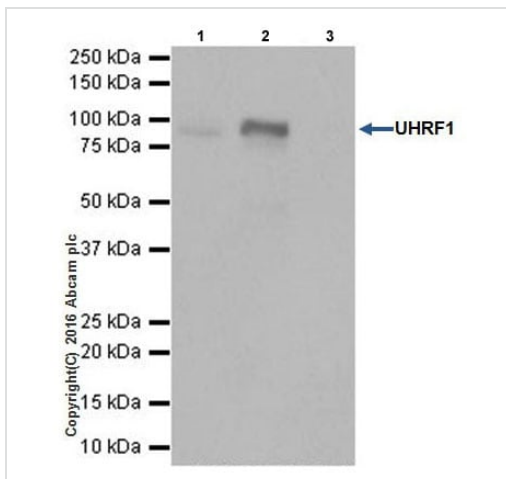
-ve control 2: ab7291 at 1/1000 dilution followed by ab150077 at

1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-UHRF1 antibody [EPR18803-11] (ab213223)

Flow cytometric analysis of 4% paraformaldehyde-fixed Jurkat (Human T cell leukemia cell line from peripheral blood) cells labeling UHRF1 with ab213223 at 1/70 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype control (ab172730) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti Rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-UHRF1 antibody [EPR18803-11] (ab213223)

UHRF1 was immunoprecipitated from 0.35 mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab213223 at 1/30 dilution.

Western blot was performed from the immunoprecipitate using ab213223 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10,000 dilution

Lane 1: HeLa whole cell lysate, 10 µg (Input).





Lane 2: ab213223 IP in HeLa whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A]-Isotype Control (ab172730) instead of ab213223 in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-UHRF1 antibody [EPR18803-11] (ab213223)

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