abcam

Product datasheet

Anti-HIP2/LIG antibody [EP1145Y] ab52930

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-HIP2/LIG antibody [EP1145Y]
Description	Rabbit monoclonal [EP1145Y] to HIP2/LIG
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P **Unsuitable for:** Flow Cyt
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human HIP2/LIG aa 150-250 (internal sequence). The exact sequence is proprietary.
Positive control	WB: HCT116, HeLa, Jurkat and Daudi cell lysates. IHC-P: Human liver tissue.
General notes	

This product was previously labelled as HIP2

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.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1145Y
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab52930** 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		1/100000. Detects a band of approximately 24 kDa (predicted molecular weight: 22 kDa).
IHC-P	★★★★☆	1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

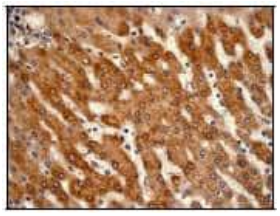
Application notes	Is unsuitable for Flow Cyt.

Target

Function	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro, in the presence or in the absence of BRCA1-BARD1 E3 ubiquitin-protein ligase complex, catalyzes the synthesis of 'Lys-48'-linked polyubiquitin chains. Does not transfer ubiquitin directly to but elongates monoubiquitinated substrate protein. Mediates the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded lumenal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequence degradation of p53/TP53. Proposed to be involved in ubiquitination and proteolytic processing of NF-kappa-B; in vitro supports ubiquitination of NFKB1. In case of infection by cytomegaloviruses may be involved in the US11-dependent degradation of MHC class I heavy chains following their export from the ER to the cytosol. In case of viral infections may be involved in the HPV E7 protein-dependent degradation of RB1.
Tissue specificity	Expressed in all tissues tested, including spleen, thymus, prostate, testis, ovary, small intestine, colon, peripheral blood leukocytes, T-lymphocytes, monocytes, granulocytes and bone marrow mononuclear cells. Highly expressed in brain, with highest levels found in cortex and striatum and at lower levels in cerebellum and brainstem.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Belongs to the ubiquitin-conjugating enzyme family. Contains 1 UBA domain.
Post-translational modifications	Sumoylation at Lys-14 impairs catalytic activity.

Cellular localization Cytoplasm.

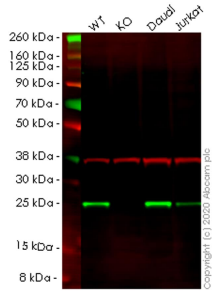
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HIP2/LIG antibody [EP1145Y] (ab52930)

Ab52930 (1:250) staining human HIP2/LIG in human liver tissue by immunohistochemistry using paraffin embedded tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-HIP2/LIG antibody [EP1145Y] (ab52930)

All lanes : Anti-HIP2/LIG antibody [EP1145Y] (ab52930) at 1/1000 dilution

Lane 1 : Wild-type HCT116 cell lysate
Lane 2 : UBE2K knockout HCT116 cell lysate
Lane 3 : Daudi cell lysate
Lane 4 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

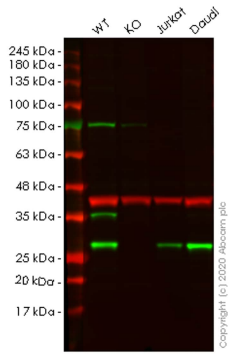
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 22 kDa
Observed band size: 25 kDa
why is the actual band size different from the predicted?

Lanes 1-4: Merged signal (red and green). Green - ab52930 observed at 25 kDa. Red - loading control ab8245 observed at 36 kDa.

ab52930 Anti-HIP2/LIG antibody [EP1145Y] was shown to specifically react with HIP2/LIG in wild-type HCT116 cells. Loss of signal was observed when knockout cell line ab266899 (knockout cell lysate ab257779) was used. Wild-type and HIP2/LIG knockout samples were subjected to SDS-PAGE. ab52930 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated

overnight at 4°C at 1 in 1000 dilution and 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-HIP2/LIG antibody [EP1145Y] (ab52930)

All lanes : Anti-HIP2/LIG antibody [EP1145Y] (ab52930) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : UBE2K knockout HeLa cell lysate
Lane 3 : Jurkat cell lysate
Lane 4 : Daudi cell lysate

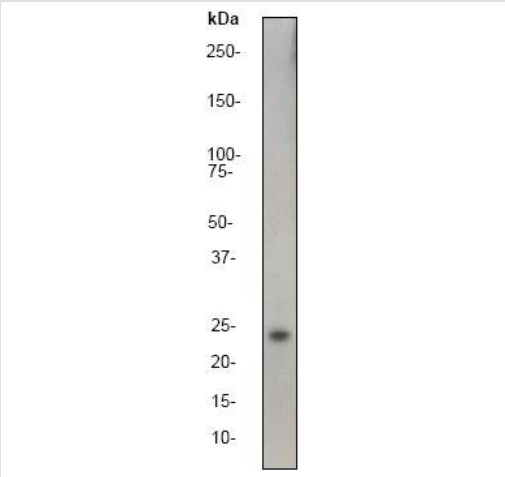
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 22 kDa
Observed band size: 26 kDa why is the actual band size different from the predicted?

Lanes 1-4: Merged signal (red and green). Green - ab52930 observed at 26 kDa. Red - loading control ab8245 observed at 36 kDa.

ab52930 Anti-HIP2/LIG antibody [EP1145Y] was shown to specifically react with HIP2/LIG in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab266031 (knockout cell lysate ab257778) was used. Wild-type and HIP2/LIG knockout samples were subjected to SDS-PAGE. ab52930 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 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-HIP2/LIG antibody [EP1145Y] (ab52930)

Anti-HIP2/LIG antibody [EP1145Y] (ab52930) at 1/100000 dilution + Daudi cell lysate at 10 µg

Secondary

Goat anti-Rabbit HRP labeled at 1/2000 dilution

Predicted band size: 22 kDa

Observed band size: 24 kDa why is the actual band size different from the predicted?

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