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 or ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
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 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. 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 (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1145Y

Isotype IgG

Applications

The Abpromise guarantee 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)	1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

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.

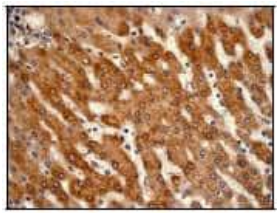
Pathway Protein modification; protein ubiquitination.

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.

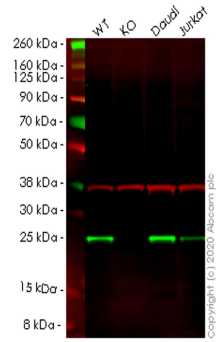
Images



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.

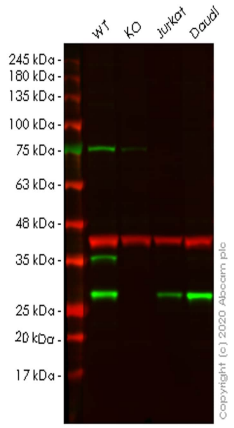
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 22 kDa
Observed band size: 25 kDa

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

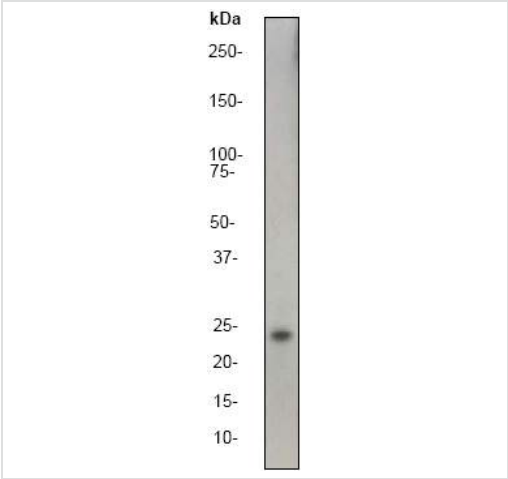
Lysates/proteins at 20 µg per lane.

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

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)

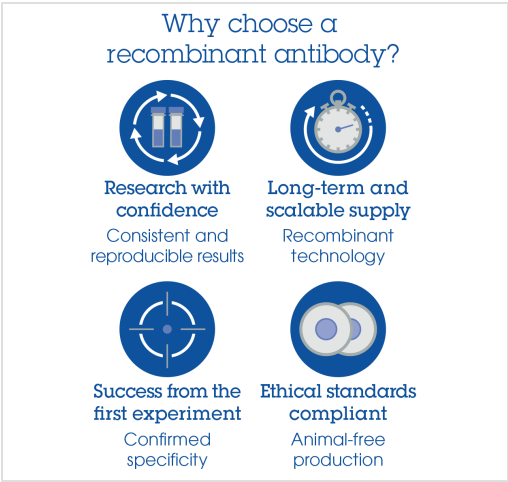
Anti-HIP2/LIG antibody [EP1145Y] (ab52930) at 1/100000 dilution + Daudi cell lysate at 10 µg

Secondary

Goat anti-Rabbit HRP labeled at 1/2000 dilution

Predicted band size: 22 kDa

Observed band size: 24 kDa



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

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