


Product datasheet

Anti-HIP2/LIG antibody [EP1145Y] - BSA and Azide free ab247338

KO VALIDATED Recombinant RabMAB

3 Images

Overview

Product name	Anti-HIP2/LIG antibody [EP1145Y] - BSA and Azide free
Description	Rabbit monoclonal [EP1145Y] to HIP2/LIG - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, Jurkat and Daudi cell lysates.
General notes	<p>ab247338 is the carrier-free version of ab52930.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit</p>

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	EP1145Y
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab247338 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 24 kDa (predicted molecular weight: 22 kDa).

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 luminal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequent 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.

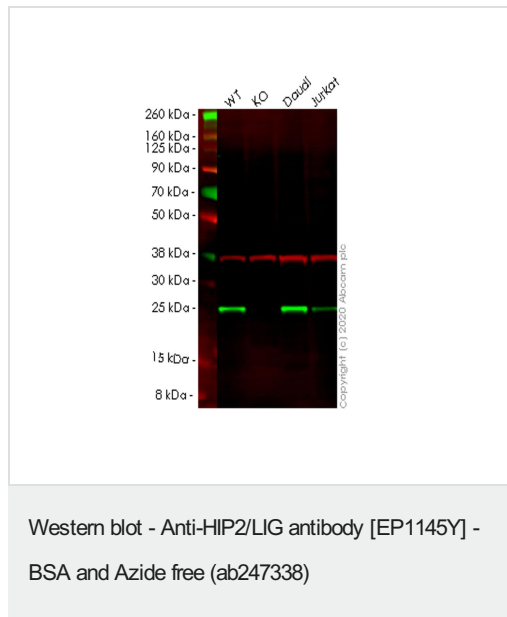
Post-translational modifications

Sumoylation at Lys-14 impairs catalytic activity.

Cellular localization

Cytoplasm.

Images



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

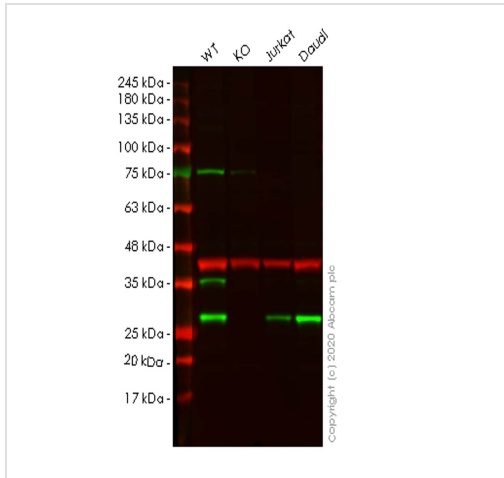
Predicted band size: 22 kDa

This data was developed using [ab52930](#), the same antibody clone in a different buffer formulation.

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] - BSA and Azide free (**ab247338**)

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

This data was developed using the same antibody clone in a different buffer formulation (**ab52930**).

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.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-HIP2/LIG antibody [EP1145Y] - BSA and Azide free (ab247338)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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