

Anti-LAMP1 antibody [EPR4204] - BSA and Azide free ab247693

KO VALIDATED Recombinant RabMAb

6 Images

Overview

Product name	Anti-LAMP1 antibody [EPR4204] - BSA and Azide free
Description	Rabbit monoclonal [EPR4204] to LAMP1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, JAR, A431 and Jurkat lysates. IHC-P: human liver carcinoma and kidney tissue.
General notes	<p>ab247693 is the carrier-free version of ab108597.</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 monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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	EPR4204
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247693 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

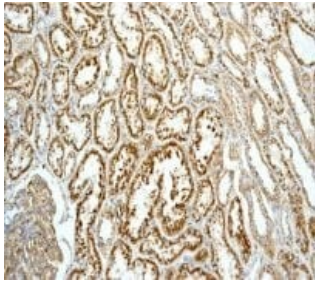
Application	Abreviews	Notes
IHC-P		1/100 - 1/400. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/1000 - 1/10000. Detects a band of approximately 120 kDa (predicted molecular weight: 45 kDa).

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

Target

Function	Presents carbohydrate ligands to selectins. Also implicated in tumor cell metastasis.
Sequence similarities	Belongs to the LAMP family.
Post-translational modifications	O- and N-glycosylated; some of the 18 N-linked glycans are polylactosaminoglycans.
Cellular localization	Cell membrane. Endosome membrane. Lysosome membrane. This protein shuttles between lysosomes, endosomes, and the plasma membrane.

Images

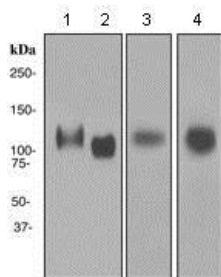


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAMP1 antibody [EPR4204] - BSA and Azide free (ab247693)

This data was developed using **ab108597**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of LAMP1 in paraffin embedded Human kidney tissue, using unpurified **ab108597** at a dilution of 1/100.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-LAMP1 antibody [EPR4204] - BSA and Azide free (ab247693)

All lanes : Anti-LAMP1 antibody [EPR4204] - Lysosome Marker (**ab108597**)

Lane 1 : HeLa cell lysate

Lane 2 : JAR cell lysate

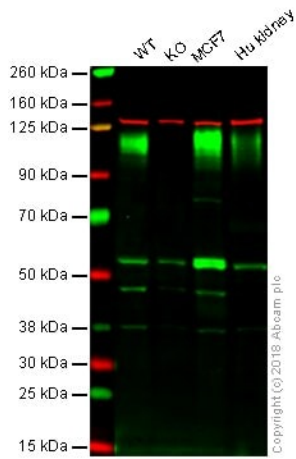
Lane 3 : Jurkat cell lysate

Lane 4 : A431 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 45 kDa

This data was developed using **ab108597**, the same antibody clone in a different buffer formulation.



Western blot - Anti-LAMP1 antibody [EPR4204] - BSA and Azide free (ab247693)

All lanes : Anti-LAMP1 antibody [EPR4204] - Lysosome Marker (**ab108597**) at 1/1000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : LAMP1 knockout HAP1 whole cell lysate

Lane 3 : MCF7 whole cell lysate

Lane 4 : Human Kidney whole cell lysate

Lysates/proteins at 20 µg per lane.

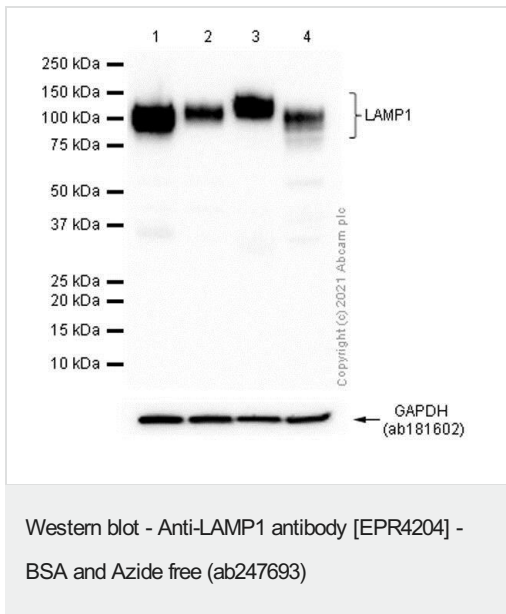
Predicted band size: 45 kDa

Observed band size: 110 kDa

This data was developed using **ab108597**, the same antibody clone in a different buffer formulation.

Lanes 1 - 4: Merged signal (red and green). Green - unpurified **ab108597** observed at 110 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab108597 was shown to recognize LAMP1 in wild-type HAP1 cells as signal was lost at the expected MW in LAMP1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and LAMP1 knockout samples were subjected to SDS-PAGE. **ab108597** and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-LAMP1 antibody [EPR4204] - Lysosome Marker ([ab108597](#)) at 1/5000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate

Lane 3 : HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate

Lane 4 : MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

Lanes 1-3 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

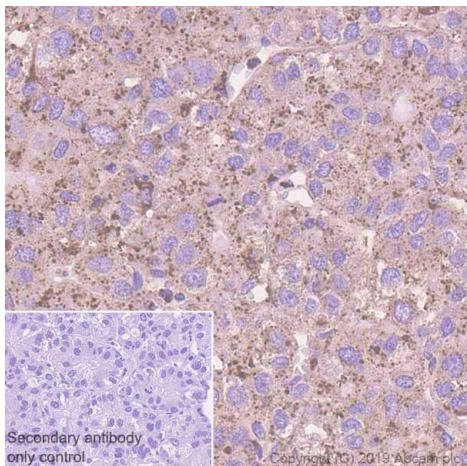
Lane 4 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate)

Predicted band size: 45 kDa

Exposure time: 5 seconds

This data was developed using [ab108597](#), the same antibody clone in a different buffer formulation.

LAMP1 is a glycoprotein. The molecular weight observed is consistent with what has been described in the literature (PMID: 27061067, 15111122).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver carcinoma tissue sections labeling LAMP1 with purified **ab108597** at 1/400 dilution (0.36 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108597**).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAMP1 antibody [EPR4204] - BSA and Azide free (ab247693)

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-LAMP1 antibody [EPR4204] - BSA and Azide free (ab247693)

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

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