abcam

Product datasheet

Anti-LIMPII antibody [EPR12080] ab176317

KO VALIDATED Recombinant RabMAb

7 References 7 Images

Overview

Product name	Anti-LIMPII antibody [EPR12080]
Description	Rabbit monoclonal [EPR12080] to LIMPII
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IP, IHC-P **Unsuitable for:** ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human LIMPII aa 50-150. The exact sequence is proprietary. Database link: **Q14108**
Positive control	WB: HeLa and Y79 cell lysate. Rat eyeball and muscle lysate. Mouse liver lysate. IP: Y79 cell lysate. Flow Cyt (intra): Permeabilized HeLa cells. IHC-P:Human kidney and 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. 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: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12080

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab176317 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
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/5000. Predicted molecular weight: 54 kDa.
IP		1/10 - 1/100.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for ICC/IF.

Target

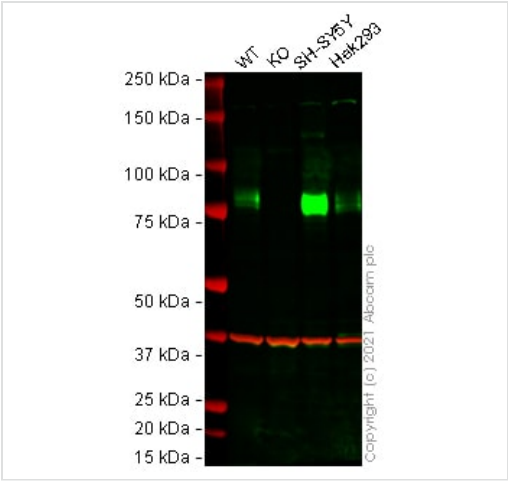
Function Acts as a lysosomal receptor for glucosylceramidase (GBA) targeting.
(Microbial infection) Acts as a receptor for enterovirus 71.

Involvement in disease Epilepsy, progressive myoclonic 4, with or without renal failure
Genetic variants in SCARB2 can act as modifier of the phenotypic expression and severity of Gaucher disease.

Sequence similarities Belongs to the CD36 family.

Cellular localization Lysosome membrane.

Images



Western blot - Anti-LIMPII antibody [EPR12080] (ab176317)

All lanes : Anti-LIMPII antibody [EPR12080] (ab176317) at 1/1000 dilution

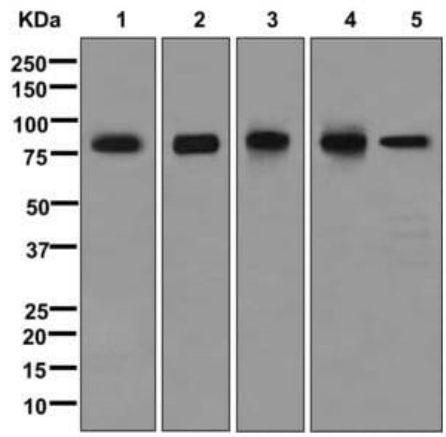
Lane 1 : Wild-type MCF7 cell lysate
Lane 2 : SCARB2 knockout MCF7 cell lysate
Lane 3 : SH-SY5Y cell lysate
Lane 4 : HEK-293 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 54 kDa
Observed band size: 80 kDa

False colour image of Western blot: Anti-LIMPII antibody [EPR12080] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab176317 was shown to bind specifically to LIMPII. A band was observed at 80 kDa in wild-type MCF7 cell lysates with no signal observed at this size in SCARB2 knockout cell line **ab274952** (knockout cell lysate **ab275010**). To generate this image, wild-type and SCARB2 knockout MCF7 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.

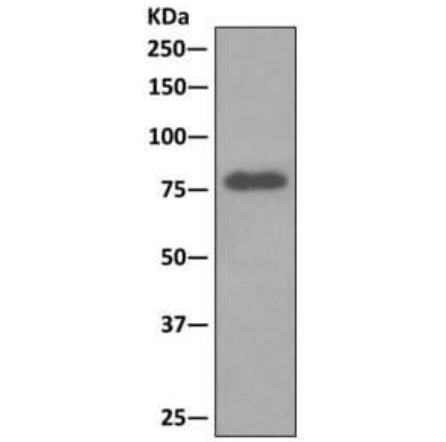


Western blot - Anti-LIMPII antibody [EPR12080] (ab176317)

All lanes : Anti-LIMPII antibody [EPR12080] (ab176317) at 1/1000 dilution

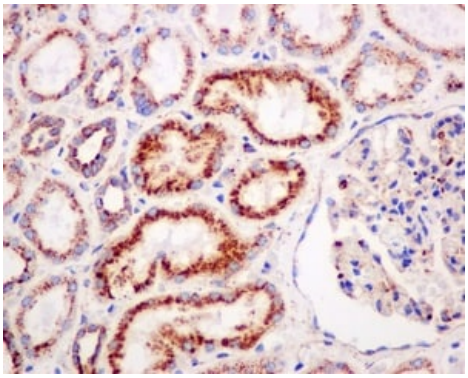
Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) lysate
Lane 2 : Y79 (Human retinoblastoma cell line) lysate
Lane 3 : Rat eyeball lysate
Lane 4 : Rat muscle lysate
Lane 5 : Mouse liver lysate

Predicted band size: 54 kDa



Immunoprecipitation - Anti-LIMPII antibody [EPR12080] (ab176317)

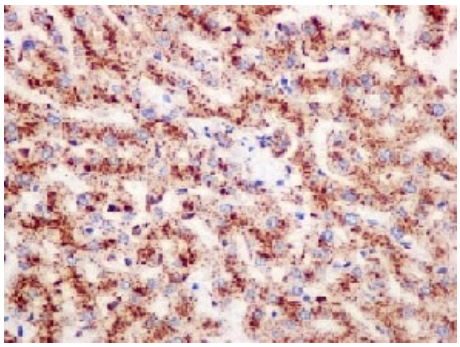
Western blot analysis on immunoprecipitation pellet from Y79 (Human retinoblastoma cell line) cell lysate labeling LIMPII using ab176317 at a 1/10 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LIMPII antibody [EPR12080] (ab176317)

Immunohistochemical analysis of paraffin-embedded human kidney tissue labling LIMPII using ab176317 at a 1/50 dilution.

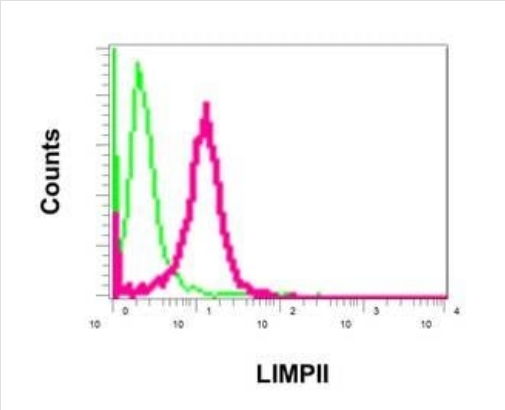
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LIMPII antibody [EPR12080] (ab176317)

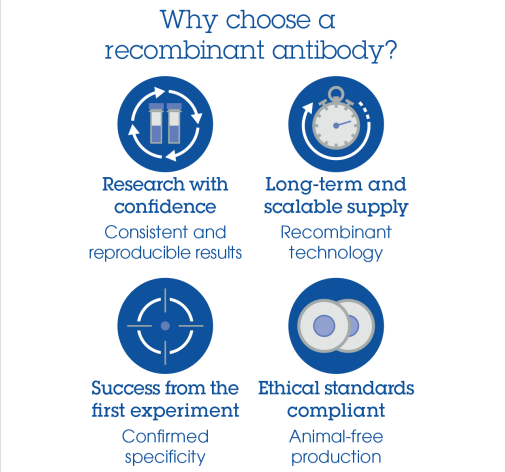
Immunohistochemical analysis of paraffin-embedded human liver tissue labling LIMPII using ab176317 at a 1/50 dilution.

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



Flow Cytometry (Intracellular) - Anti-LIMPII antibody [EPR12080] (ab176317)

Intracellular flow cytometric analysis of permeabilized HeLa cells labeling LIMPII using ab176317 at a 1/10 dilution (red)or a rabbit IgG control (green).



Anti-LIMPII antibody [EPR12080] (ab176317)

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