

Product datasheet

Anti-LYVE1 antibody [EPR21857] ab219556

Recombinant RabMAb

★★★★★ 2 Abreviews 6 Images

Overview

Product name	Anti-LYVE1 antibody [EPR21857]
Description	Rabbit monoclonal [EPR21857] to LYVE1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human LYVE1 aa 1-250. The exact sequence is proprietary. Database link: Q9Y5Y7
Positive control	WB: Human lymph node, brain, fetal lung and fetal spleen lysates. IHC-P: Human colon, tonsil and liver tissue. IP: Human fetal lung lysate.
General notes	<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> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own</p>

labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21857
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab219556** 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		1/1000. Detects a band of approximately 50-70 kDa (predicted molecular weight: 35 kDa).
IHC-P	★★★★★	1/20000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/20.

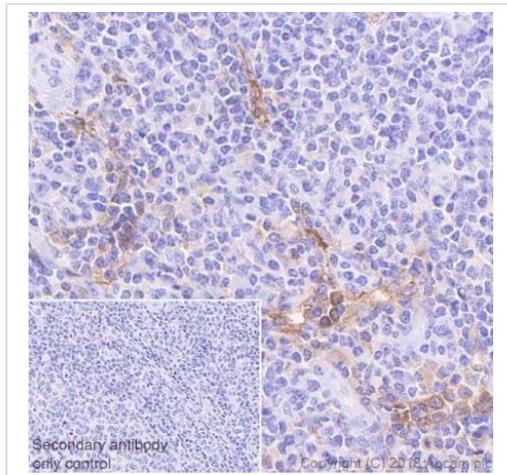
Target

Function	Ligand-specific transporter trafficking between intracellular organelles (TGN) and the plasma membrane. Plays a role in autocrine regulation of cell growth mediated by growth regulators containing cell surface retention sequence binding (CRS). May act as a hyaluronan (HA) transporter, either mediating its uptake for catabolism within lymphatic endothelial cells themselves, or its transport into the lumen of afferent lymphatic vessels for subsequent re-uptake and degradation in lymph nodes.
Tissue specificity	Mainly expressed in endothelial cells lining lymphatic vessels.
Sequence similarities	Contains 1 Link domain.
Post-translational modifications	O-glycosylated.

Cellular localization

Membrane. Localized to the plasma membrane and in vesicles near extranuclear membranes which may represent trans-Golgi network (TGN) and endosomes/prelysosomal compartments. Undergoes ligand-dependent internalization and recycling at the cell surface.

Images

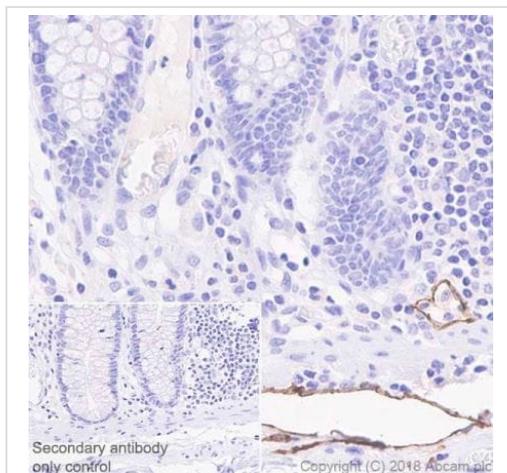


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYVE1 antibody [EPR21857] (ab219556)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling LYVE1 with ab219556 at 1/20,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on lymphatic endothelial cells of human tonsil (PMID: 11377291) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat-mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

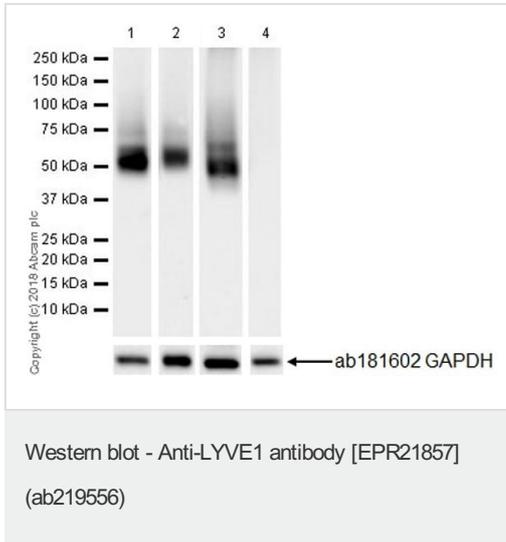


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYVE1 antibody [EPR21857] (ab219556)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling LYVE1 with ab219556 at 1/20,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on lymphatic endothelial cells of human colon (PMID: 11377291) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat-mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



All lanes : Anti-LYVE1 antibody [EPR21857] (ab219556) at 1/1000 dilution

Lane 1 : Human fetal lung lysate

Lane 2 : Human lymph node lysate

Lane 3 : Human fetal spleen lysate

Lane 4 : Human brain lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 35 kDa

Observed band size: 50-70 kDa

[why is the actual band size different from the predicted?](#)

Blocking and dilution buffer: 5% NFDM/TBST

Exposure times:

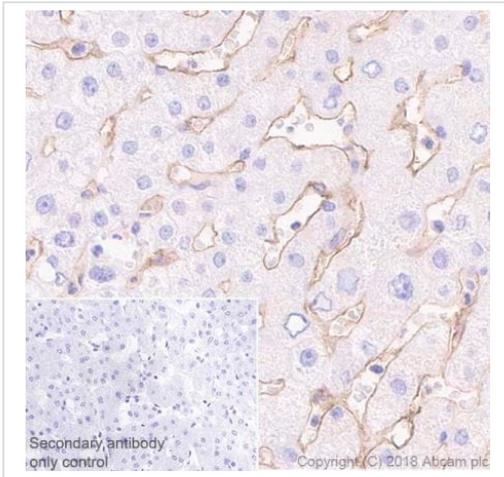
Lane 1: 37 seconds

Lanes 2 & 4: 92 seconds

Lane 3: 6 seconds

Negative control: Human brain (PMID: 20599941).

Bands observed are consistent with full-length and soluble fragments, as described in the literature (PMID: 29262593, PMID: 26966180, PMID: 26926389).

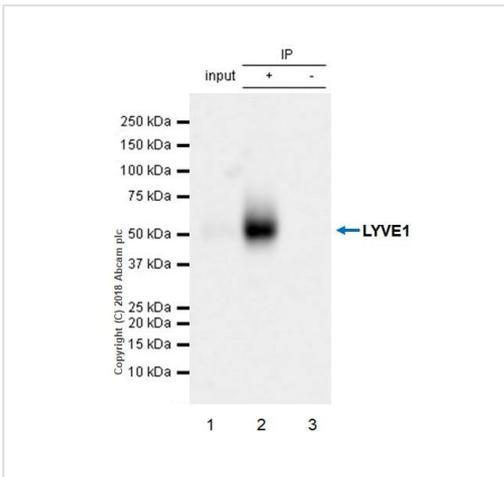


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYVE1 antibody [EPR21857] (ab219556)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling LYVE1 with ab219556 at 1/20,000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on blood sinusoids of human liver (PMID: 11719431) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat-mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Immunoprecipitation - Anti-LYVE1 antibody [EPR21857] (ab219556)

LYVE1 was immunoprecipitated from 0.35 mg of human fetal lung lysate with ab219556 at 1/20 dilution. Western blot was performed from the immunoprecipitate using ab219556 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

Lane 1: Human fetal lung lysate 10 µg (Input).

Lane 2: ab219556 IP in human fetal lung lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab219556 in human fetal lung lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 20 seconds.

The band observed is consistent with the soluble LYVE1 described in the literature (PMID: 29262593; PMID: 26966180; PMID: 26926389).

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-LYVE1 antibody [EPR21857] (ab219556)

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

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