

Product datasheet

Anti-HLAB antibody [EPR22172] ab225636

Recombinant RabMAb

10 Images

Overview

Product name	Anti-HLAB antibody [EPR22172]
Description	Rabbit monoclonal [EPR22172] to HLAB
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, Flow Cyt, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human HLAB aa 1-300. The exact sequence is proprietary. Database link: P01889
Positive control	ICC/IF: THP-1 and Raji cells. Flow Cyt: Raji and THP-1 cells. IHC-P: Human colonic carcinoma, stomach and liver tissue. WB: Raji, THP-1, HL-60, Jurkat, HepG2, TF-1 and Ramos whole cell lysate. Human tonsil. IP: HLAB in THP-1 whole cell 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>

Applications & species from publications and Abreviews that have not been tested in our own 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, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22172
Isotype	IgG

Applications

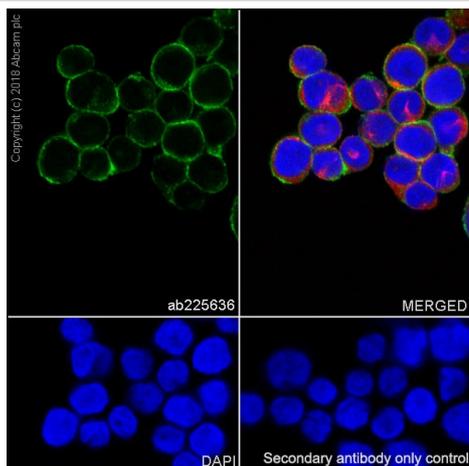
Our [Abpromise guarantee](#) covers the use of **ab225636** in the following tested applications.

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 40 kDa (predicted molecular weight: 40 kDa).
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250.
Flow Cyt		1/600.
IP		1/30.

Target

Relevance	HLAB protein is involved in the presentation of foreign antigens to the immune system. It belongs to the MHC class I family and contains 1 Ig-like C1-type (immunoglobulin-like) domain.
Cellular localization	Cell Membrane



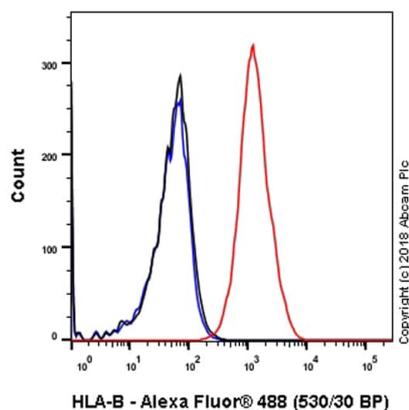
Immunocytochemistry/ Immunofluorescence - Anti-HLAB antibody [EPR22172] (ab225636)

Immunofluorescent analysis of 100% methanol-fixed THP-1 (human monocytic leukemia cell line) cells labeling HLAB with ab225636 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous staining in THP-1 cells. The nuclear counterstain is DAPI (blue).

Tubulin is detected with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (red).

The negative control is the secondary antibody only.

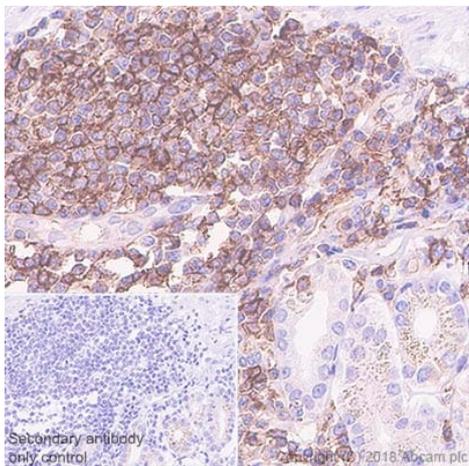
Methanol is recommended for fixation as weak signal was observed using 4% PFA.



Flow Cytometry - Anti-HLAB antibody [EPR22172] (ab225636)

Flow cytometric analysis of Raji (human Burkitt's lymphoma cell line) cells labeling HLAB with ab225636 at 1/600 (red) compared with a Rabbit monoclonal IgG (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti-rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody.

Gated on viable cells.

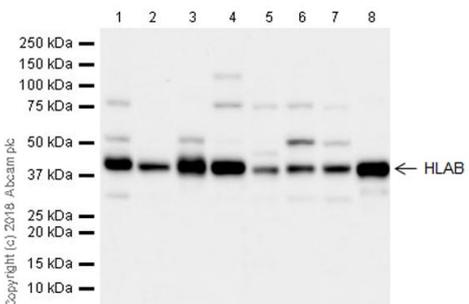


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HLAB antibody [EPR22172] (ab225636)

Immunohistochemical analysis of paraffin-embedded human stomach tissue labeling HLAB with ab225636 at 1/4000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Membranous and cytoplasmic staining on lymph nodule of human stomach (PMID:25294906) 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).



Western blot - Anti-HLAB antibody [EPR22172] (ab225636)

All lanes : Anti-HLAB antibody [EPR22172] (ab225636) at 1/1000 dilution

Lane 1 : Raji (human Burkitt's lymphoma cell line), whole cell lysate

Lane 2 : THP-1 (human monocytic leukemia cell line), whole cell lysate

Lane 3 : HL-60 (human promyelocytic leukemia cell line), whole cell lysate

Lane 4 : Jurkat (human T cell leukemia cell line from peripheral blood), whole cell lysate

Lane 5 : HepG2 (human liver hepatocellular carcinoma cell line), whole cell lysate

Lane 6 : TF-1 (human bone marrow erythroleukemia cell line), whole cell lysate

Lane 7 : Ramos (human Burkitt's lymphoma cell line), whole cell lysate

Lane 8 : Human tonsil

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

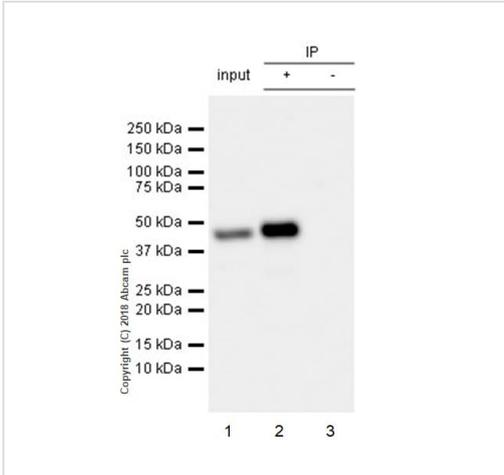
Predicted band size: 40 kDa

Observed band size: 40 kDa

Exposure time: 26 seconds

Blocking/Dilution buffer: 5% NFD/MTBST.

Weak reactive bands of undetermined proteins are observed in addition to the target band.



Immunoprecipitation - Anti-HLAB antibody
[EPR22172] (ab225636)

HLAB was immunoprecipitated from 0.35 mg THP-1 (human monocytic leukemia cell line) whole cell lysate with ab225636 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab225636 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1000 dilution.

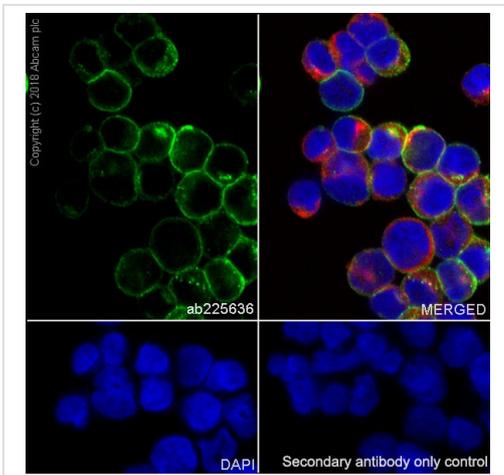
Lane 1: THP-1 whole cell lysate 10 µg (Input).

Lane 2: ab225636 IP in THP-1 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab225636 in THP-1 whole cell lysate.

Blocking/Dilution buffer: 5% NFD/MTBST.

Exposure time: 3 seconds.



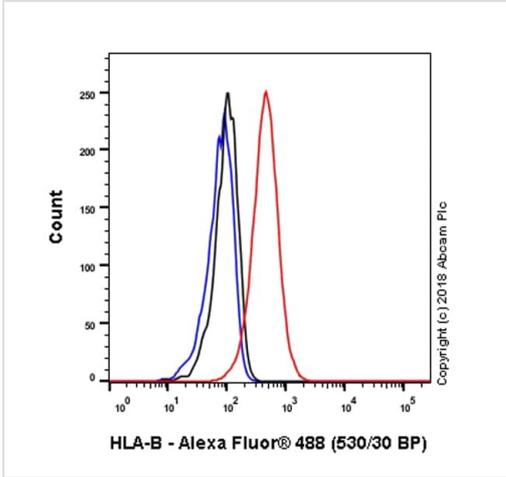
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Immunofluorescent analysis of 100% methanol-fixed Raji (human Burkitt's lymphoma cell line) cells labeling HLAB with ab225636 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous staining in Raji cells. The nuclear counterstain is DAPI (blue).

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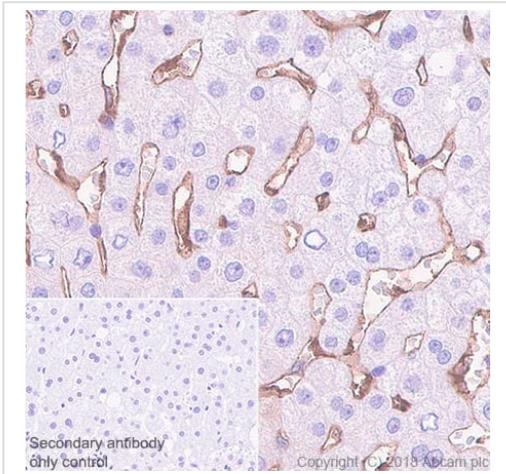
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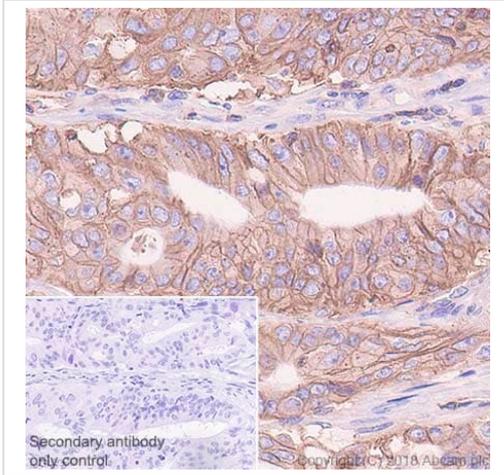
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HLAB antibody [EPR22172] (ab225636)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling HLAB with ab225636 at 1/4000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on hepatic sinus endothelium of human liver (PMID: 26963506) 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-HLAB antibody [EPR22172] (ab225636)

Immunohistochemical analysis of paraffin-embedded human colonic carcinoma tissue labeling HLAB with ab225636 at 1/4000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Membranous and cytoplasmic staining on tumor cells of human colonic carcinoma (PMID: 26310568, PMID: 17014712) 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).

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-HLAB antibody [EPR22172] (ab225636)

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

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