

Product datasheet

Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] α b170950

Recombinant RabMAb

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Overview

Product name	Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145]
Description	Rabbit monoclonal [EPR12145] to Aspartate Aminotransferase + FABP-1
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HepG2; MCF-7, HT-29 and K562 cell lysates; Human hepatocellular carcinoma tissue; HepG2 and K562 cells. Mouse brain, rat brain and rat heart lysates. Human glioma tissue, K562.
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>

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR12145
 Isotype IgG

Applications

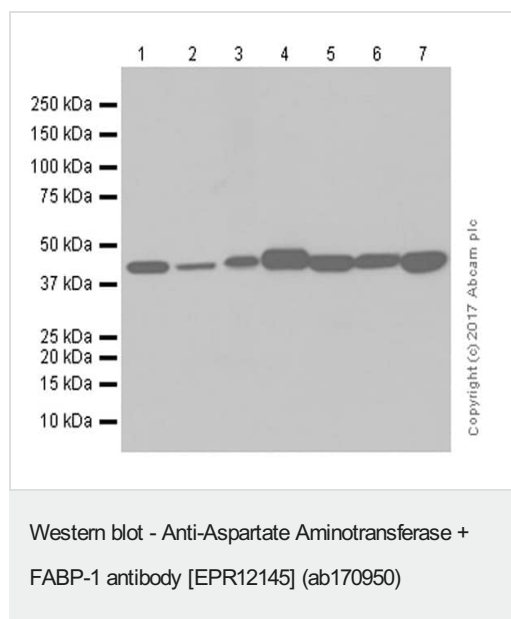
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab170950 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/20. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/3000. Predicted molecular weight: 46 kDa.
ICC/IF		1/500.
IHC-P		1/170. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocol . The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.

Target

Cellular localization Aspartate Aminotransferase: Cytoplasm. FABP-1: Mitochondrion matrix. Cell membrane. Exposure to alcohol promotes translocation to the cell membrane.

Images



All lanes : purified at 1/3000 dilution

Lane 1 : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

Lane 2 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 3 : K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysates

Lane 4 : Mouse brain lysates

Lane 5 : Mouse heart lysates

Lane 6 : Rat brain lysates

Lane 7 : Rat heart lysates

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 46 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950) at 1/1000 dilution + Recombinant human FABP-1 protein (**ab206788**) at 0.015 µg

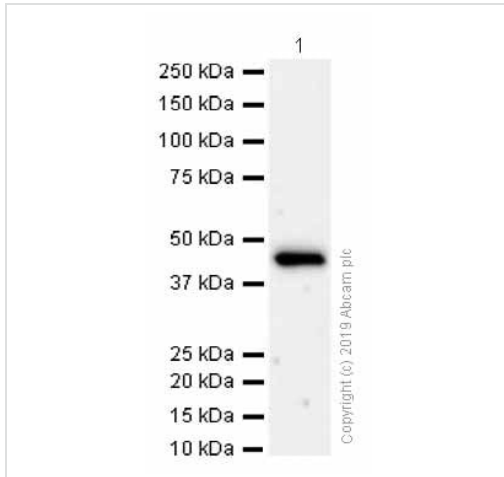
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

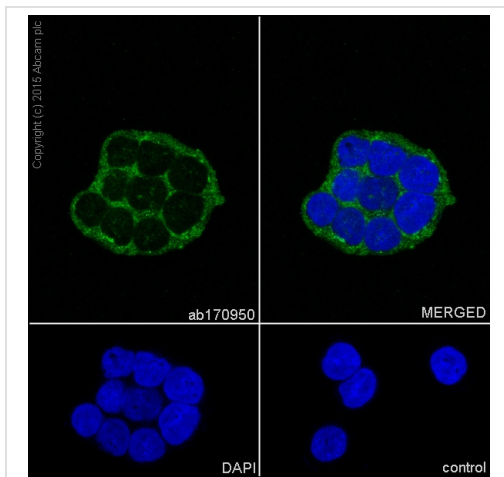
Predicted band size: 46 kDa

Observed band size: 47 kDa

Exposure time: 180 seconds



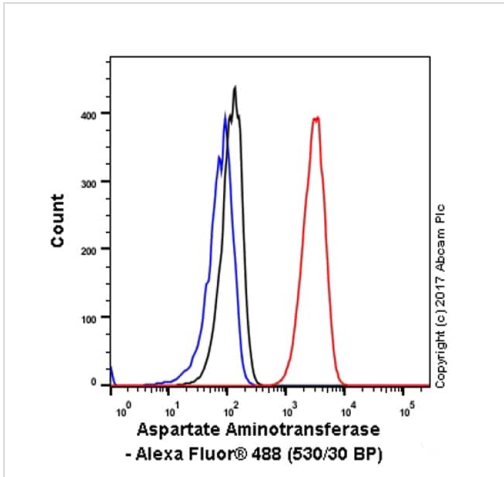
Western blot - Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)



Immunocytochemistry/ Immunofluorescence - Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)

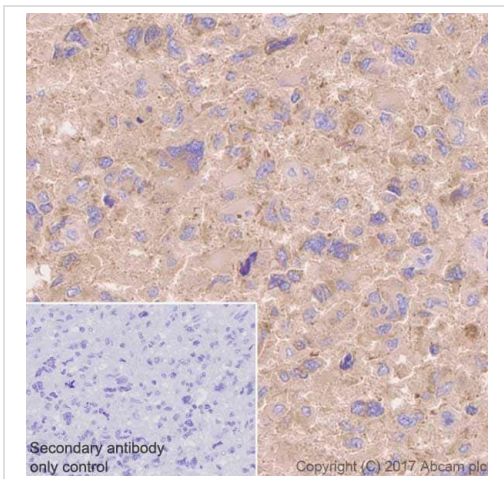
Immunocytochemistry/Immunofluorescence analysis of HT-29 (human colorectal adenocarcinoma) cells labelling Aspartate Aminotransferase + FABP-1 with purified ab170950 at 1/120. Cells were fixed with 100% methanol. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (**ab150077**) at 1/1000 dilution was used as the secondary antibody. Nuclei counterstained with DAPI (blue).

Secondary Only Control: PBS was used instead of the primary antibody as the negative control.



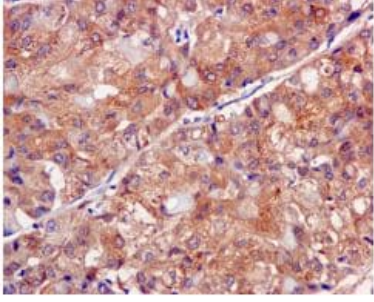
Flow Cytometry (Intracellular) - Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)

Intracellular Flow Cytometry analysis of K-562 (Human chronic myelogenous leukemia lymphoblast) cells labeling Aspartate Aminotransferase + FABP-1 with purified ab170950 at 1/20 dilution (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)

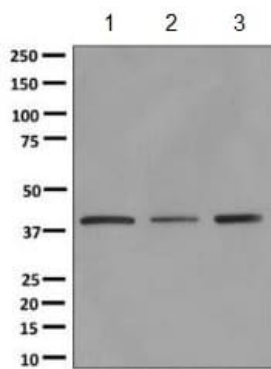
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human glioma tissue sections labeling Aspartate Aminotransferase + FABP-1 with Purified ab170950 at 1:170 dilution. Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)

Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling Aspartate Aminotransferase + FABP-1 using unpurified ab170950 at 1/50 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)

All lanes : Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950) at 1/1000 dilution (unpurified)

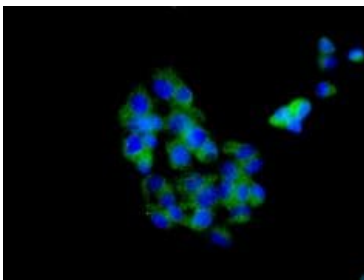
Lane 1 : HepG2 cell lysate

Lane 2 : MCF-7 cell lysate

Lane 3 : K562 cell lysate

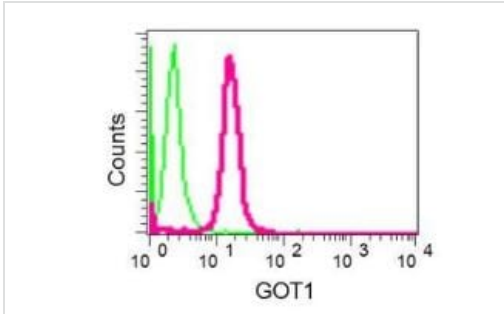
Lysates/proteins at 10 µg per lane.

Predicted band size: 46 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)





Immunofluorescent analysis of HepG2 cells labeling Aspartate Aminotransferase + FABP-1 using unpurified ab170950 at 1/50 dilution (green). DAPI nuclear staining (blue).



Intracellular flow cytometric analysis of permeabilized K562 cells labeling Aspartate Aminotransferase + FABP-1 using unpurified ab170950 at 1/10 dilution (red) or a rabbit IgG negative (green).

Flow Cytometry (Intracellular) - Anti-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)

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-Aspartate Aminotransferase + FABP-1 antibody [EPR12145] (ab170950)

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

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