

Product datasheet

Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] ab190775

Recombinant RabMAb

★★★★★ 1 Abreviews 1 References 8 Images

Overview

Product name	Anti-Hepcidin + Hepcidin-2 antibody [EPR18937]
Description	Rabbit monoclonal [EPR18937] to Hepcidin + Hepcidin-2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IHC-Fr
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment within Mouse Hepcidin + Hepcidin-2 aa 1 to the C-terminus. The exact sequence is proprietary. Hepcidin-2 = SwissProt: Q80T19 Database link: Q9EQ21
Positive control	WB: Mouse Hepcidin recombinant fragment protein; Mouse Hepcidin-2 recombinant fragment protein; Mouse liver lysate. IHC-P: Mouse liver tissue. IHC-F: Mouse liver tissue.
General notes	

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMab[®] patents](#).

This product is a [recombinant rabbit monoclonal antibody](#).

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	EPR18937
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab190775** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

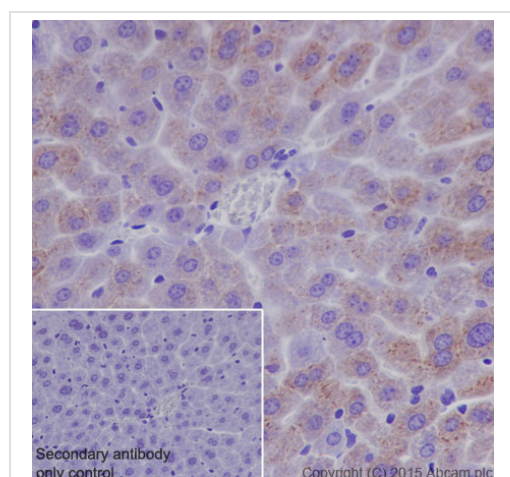
Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★	1/200. Detects a band of approximately 9 kDa (predicted molecular weight: 9 kDa).
IHC-Fr		1/100.

Target

Relevance

Hepcidin: Q9EQ21: Liver-produced hormone that constitutes the main circulating regulator of iron absorption and distribution across tissues. Acts by promoting endocytosis and degradation of ferroportin, leading to the retention of iron in iron-exporting cells and decreased flow of iron into plasma. Controls the major flows of iron into plasma: absorption of dietary iron in the intestine, recycling of iron by macrophages, which phagocytose old erythrocytes and other cells, and mobilization of stored iron from hepatocytes. Hepcidin-2: Q80T19: Seems to act as a signaling molecule involved in the maintenance of iron homeostasis.

Images



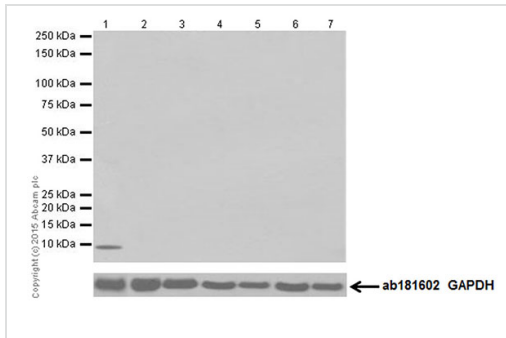
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling Hepcidin + Hepcidin-2 with ab190775 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Cytoplasmic staining on hepatocytes of Mouse liver was observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [ab97051](#) at 1/500 dilution.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] ([ab190775](#))



Western blot - Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775)

All lanes : Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775) at 1/200 dilution

Lane 1 : Mouse liver lysate

Lane 2 : Mouse brain lysate

Lane 3 : Mouse heart lysate

Lane 4 : Mouse kidney lysate

Lane 5 : Mouse spleen lysate

Lane 6 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate

Lane 7 : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

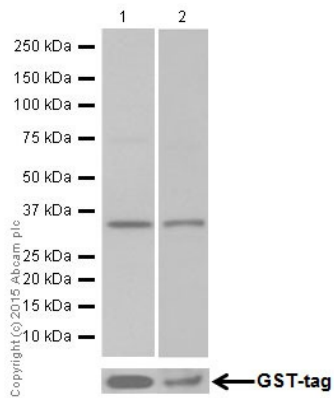
Predicted band size: 9 kDa

Observed band size: 9 kDa

Exposure time: 20 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

Highly expressed in the liver and to a much lesser extent in the heart (PMID:11113132 and PMID:12729891)



Western blot - Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775)

All lanes : Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775) at 1/5000 dilution

Lane 1 : Mouse Hepcidin recombinant fragment protein

Lane 2 : Mouse Hepcidin-2 recombinant fragment protein

Lysates/proteins at 0.01 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 9 kDa

Observed band size: 32 kDa

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

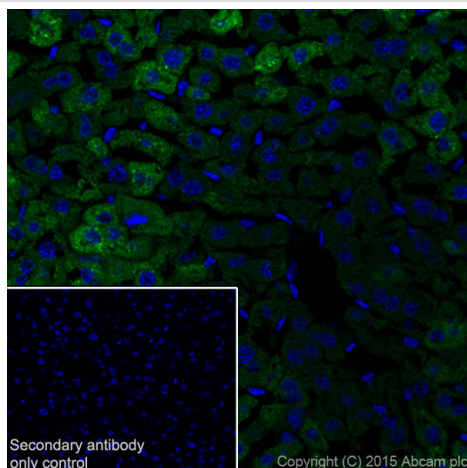
Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time:

Lane 1: 1 second.

Lane 2: 2 seconds.

The mouse recombinant fragment proteins contain aa24-83 with a GST-Tag and were made in-house.



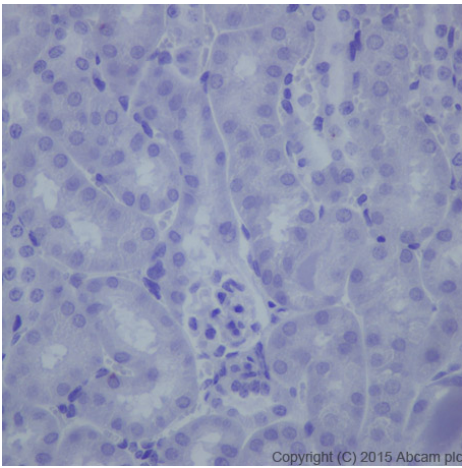
Immunohistochemistry (Frozen sections) - Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized frozen section of Mouse liver labeling Hepcidin + Hepcidin-2 with ab190775 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic staining on hepatocytes of Mouse liver.

Counter stained with DAPI.

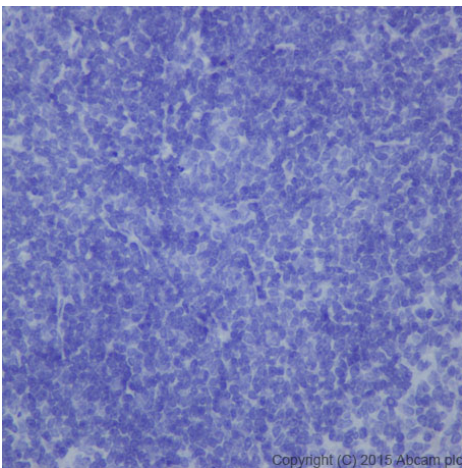
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775)

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling Hepcidin + Hepcidin-2 with ab190775 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on Mouse kidney. Counter stained with Hematoxylin.

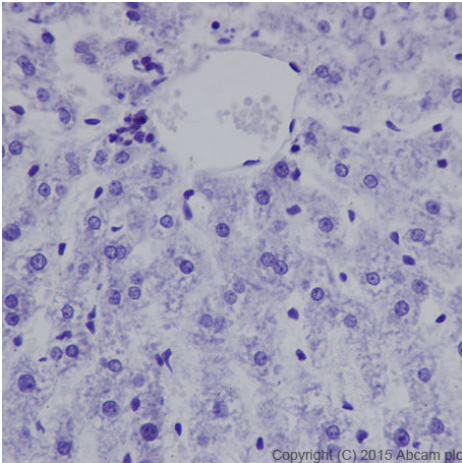
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling Hepcidin + Hepcidin-2 with ab190775 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on Mouse spleen. Counter stained with Hematoxylin.

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

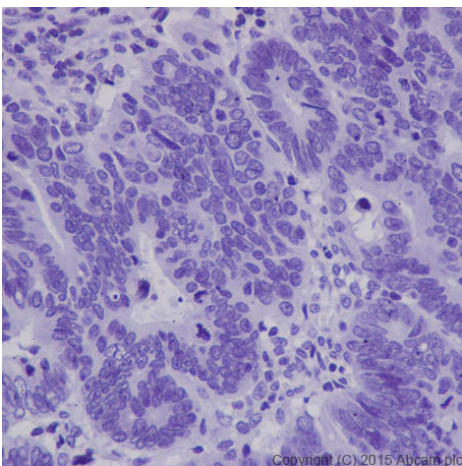


Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling Hepcidin + Hepcidin-2 with ab190775 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on Rat liver. This could be because the ab does not XR with Rat hepcidin (77% identity between mouse and rat hepcidin sequences).

Counter stained with Hematoxylin.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775)



Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Hepcidin + Hepcidin-2 with ab190775 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on Human colon cancer. Counter stained with Hematoxylin.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hepcidin + Hepcidin-2 antibody [EPR18937] (ab190775)

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