abcam

ab181997

Anti-HAPLN1 antibody [EPR6338]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR6338
Purification technique	Affinity purification Protein A
Concentration	2.193 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/250
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/2000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/50
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information HAPLN1

Function	Stabilizes the aggregates of proteoglycan monomers with hyaluronic acid in the extracellular cartilage matrix.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	HAPLN1 also known as hyaluronan and proteoglycan link protein 1 is an important structural component in the extracellular matrix. This protein links hyaluronan to proteoglycans which contributes to the integrity and function of the matrix. HAPLN1 has a molecular mass of approximately 39 kDa and is expressed in various tissues including cartilage and nervous tissues. Its expression plays a significant role in maintaining the properties of these tissues.
Biological function summary	Hyaluronan and proteoglycan link protein 1 supports the organization and stabilization of the extracellular matrix network. As part of this framework HAPLN1 forms complexes with hyaluronan and aggrecan ensuring structural stability and resilience in tissues experiencing mechanical stress. The association with such complexes impacts cellular signaling and tissue hydration which are important for maintaining tissue homeostasis and function.
Pathways	HAPLN1 participates in extracellular matrix organization and cell signaling processes. It is actively involved in the aggrecan pathway which influences cartilage development and repair. HAPLN1 is also connected to proteins like aggrecan and link proteins that help mediate interactions within the matrix and regulate cellular responses to mechanical stress.
Associated diseases and disorders	Abnormal expression or function of HAPLN1 has links to osteoarthritis and intervertebral disc degeneration. In these conditions the disruption of extracellular matrix composition alters tissue integrity and function. An imbalance involving HAPLN1 along with proteins like aggrecan contributes to the pathogenesis and progression of these disorders affecting joint and disc health.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

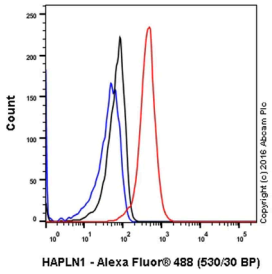
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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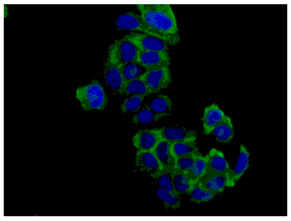
5 product images



Flow Cytometry (Intracellular) - Anti-HAPLN1 antibody [EPR6338] (ab181997)

HAPLN1 Flow Cytometry (Intracellular) staining using rabbit Anti-HAPLN1 antibody

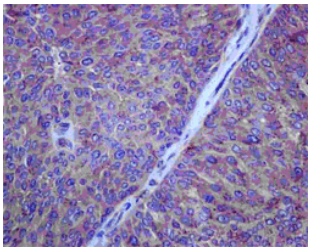
Intracellular Flow Cytometry analysis of MCF-7 (human breast carcinoma) cells labeling HAPLN1 with purified ab181997 at 1/2000 dilution (red). The secondary antibody was Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution. A Rabbit monoclonal IgG (Black) was used as the isotype control and cells without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.



Immunocytochemistry/ Immunofluorescence - Anti-HAPLN1 antibody [EPR6338] (ab181997)

HAPLN1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-HAPLN1 antibody

Immunofluorescent analysis of MCF7 cells (paraformaldehyde-fixed, 4%) labeling HAPLN1 with ab181997 at 1/250 dilution, followed by Goat anti rabbit IgG(Dylight 488) at 1/200 dilution and counter-stained with DAPI (blue).

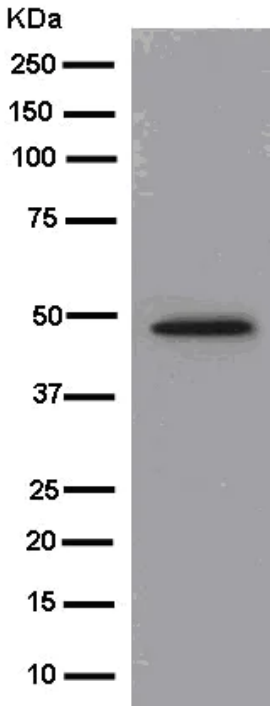


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HAPLN1 antibody [EPR6338] (ab181997)

HAPLN1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-HAPLN1 antibody

Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma of bladder tissue labeling HAPLN1 with ab181997 at 1/50 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Western blot - Anti-HAPLN1 antibody [EPR6338] (ab181997)



HAPLN1 Western blot staining of Human spleen lysate using rabbit Anti-HAPLN1 antibody

All lanes:
Western blot - Anti-HAPLN1 antibody [EPR6338] (ab181997) at 1/1000 dilution

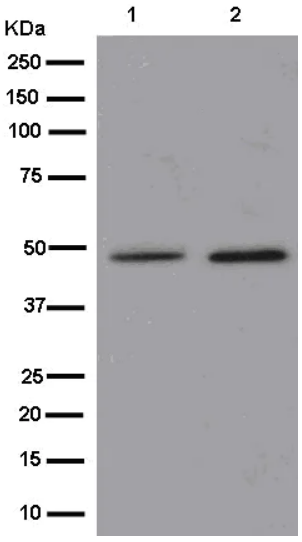
All lanes:
Human spleen lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab136636) at 1/1000 dilution

Predicted band size: 40 kDa

Western blot - Anti-HAPLN1 antibody [EPR6338] (ab181997)



All lanes:
Western blot - Anti-HAPLN1 antibody [EPR6338] (ab181997) at 1/1000 dilution

Lane 1:
MCF7 lysate at 10 µg

Lane 2:
Caco2 lysate at 10 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L)-HRP at 1/1000 dilution

Predicted band size: 40 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.