abcam

ab250514

Anti-HABP2 antibody [EPR14551] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR14551
Purification technique	Affinity purification Protein A
Concentration	0.926 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-

Notes	-

Expected

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

WB

Tested

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Target data

See full target information HABP2

Function	Cleaves the alpha-chain at multiple sites and the beta-chain between 'Lys-53' and 'Lys-54' but not the gamma-chain of fibrinogen and therefore does not initiate the formation of the fibrin clot and does not cause the fibrinolysis directly (PubMed:11217080). It does not cleave (activate) prothrombin and plasminogen but converts the inactive single chain urinary plasminogen activator (pro-urokinase) to the active two chain form (PubMed:10754382, PubMed:11217080). Activates coagulation factor VII (Probable). May function as a tumor suppressor negatively regulating cell proliferation and cell migration (PubMed:26222560).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab250514 is the carrier-free version of ab181837.

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.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

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

Activity summary	The Hyaluronan-Binding Protein 2 (HABP2) also known as Factor VII activating protease is a serine protease with an approximate mass of 65 kDa. This protein gets expressed mainly in the liver and secreted into the bloodstream. HABP2 participates in extracellular matrix interactions by binding to hyaluronan. It plays a role in coagulation processes. The protein also influences angiogenesis highlighting its mechanical involvement in vascular biology.
Biological function summary	HABP2 functions as a regulator in the maintenance of blood homeostasis and tissue remodeling. It takes part in fibrinolysis the process that prevents blood clots from growing and becoming problematic. HABP2 works together with fibrin to facilitate clot breakdown. It may also interact with plasminogen activators within these complexes to accomplish its biological functions effectively.
Pathways	HABP2 integrates into the fibrinolytic and coagulation pathways. It contributes to ensuring that the balance between clot formation and breakdown is maintained. The protein shows interactions with other components like urokinase-type plasminogen activator (uPA) which also plays a role in fibrinolysis. This highlights HABP2's participation in processes that involve preventing thrombosis.
Associated diseases and disorders	HABP2 has associations with cardiovascular disorders including venous thromboembolism. Aberrant activity of HABP2 may contribute to an increased risk of thrombosis. The protein's interaction with plasminogen and fibrin suggests its involvement in abnormal clotting disorders. Further study into HABP2's role could aid in understanding its potential as a therapeutic target in these conditions.

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.

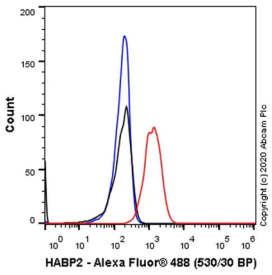
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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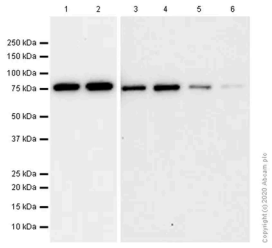
2 product images



Flow Cytometry (Intracellular) - Anti-HABP2 antibody [EPR14551] - BSA and Azide free (ab250514)

HABP2 Flow Cytometry (Intracellular) staining using rabbit Anti-HABP2 antibody

This data was developed using ab181837, the same antibody clone in a different buffer formulation. Intracellular Flow Cytometry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling HABP2 with purified ab181837 at 1/20 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-HABP2 antibody [EPR14551] - BSA and Azide free (ab250514)

All lanes:
Western blot - Anti-HABP2 antibody [EPR14551] (ab181837) at 1/10000 dilution

Lane 1:
MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
A549 (Human lung carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 3:
Mouse brain lysate at 20 µg

Lane 4:
Mouse heart lysate at 20 µg

Lane 5:
Rat brain lysate at 20 µg

Lane 6:
Rat heart lysate at 20 µg

Secondary

All lanes:

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/20000 dilution

Predicted band size: 63 kDa

Observed band size: 75 kDa

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