abcam

ab225763

Anti-IGFBP2 antibody [EPR18012-257] - 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	EPR18012-257
Purification technique	Affinity purification Protein A
Concentration	0.989 - 1.029 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-

Notes	-

Expected

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

Predicted

Species	Rat
Dilution info	-
Notes	-

WB

Expected

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

IHC-Fr

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Predicted

Species	Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	-
Notes	-

Not recommended

Species	Human, Rat

Dilution info	-
Notes	-

Target data

See full target information IGFBP2

Function	Multifunctional protein that plays a critical role in regulating the availability of IGFs such as IGF1 and IGF2 to their receptors and thereby regulates IGF-mediated cellular processes including proliferation, differentiation, and apoptosis in a cell-type specific manner (PubMed:18563800, PubMed:38796567). Functions coordinately with receptor protein tyrosine phosphatase beta/PTPRB and the IGF1 receptor to regulate IGF1-mediated signaling by stimulating the phosphorylation of PTEN leading to its inactivation and AKT1 activation (PubMed:22869525). Plays a positive role in cell migration via interaction with integrin alpha5/ITGA5 through an RGD motif (PubMed:16569642). Additionally, interaction with ITGA5/ITGB1 enhances the adhesion of endothelial progenitor cells to endothelial cells (PubMed:26076738). Upon mitochondrial damage, facilitates apoptosis with ITGA5 of podocytes, and then activates the phosphorylation of focal adhesion kinase (FAK)-mediated mitochondrial injury (PubMed:38796567).

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

ab225763 is the carrier-free version of ab188200.

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.

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.

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

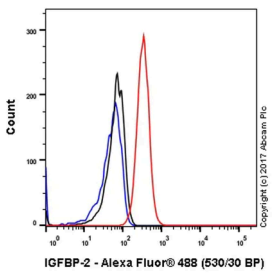
We do not recommend this combination. It is not covered by our product promise.

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.

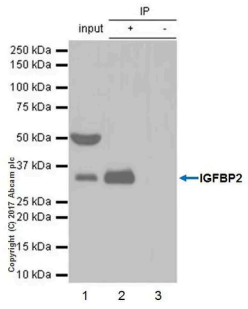
7 product images



Flow Cytometry (Intracellular) - Anti-IGFBP2 antibody [EPR18012-257] - BSA and Azide free (ab225763)

IGFBP2 Flow Cytometry (Intracellular) staining using rabbit Anti-IGFBP2 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized T-47D (human ductal breast epithelial tumor epithelial cell) cell line labeling IGFBP2 with ab188200 at 1/60 (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) and an unlabelled 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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab188200).



Immunoprecipitation - Anti-IGFBP2 antibody [EPR18012-257] - BSA and Azide free (ab225763)

IGFBP2 was immunoprecipitated from 0.35 mg of human serum with ab188200 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab188200 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.
Lane 1: Human serum 10 µg (Input).
Lane 2: ab188200 IP in Human serum (+).
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab188200 in human serum (-).

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.

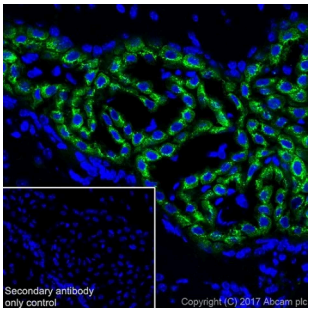
The band in lane 1 is human IgG heavy chain which is often observed in serum and plasma samples.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab188200).

All lanes:
Immunoprecipitation - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

Predicted band size: 35 kDa

Exposure time: 1s



Immunohistochemistry (Frozen sections) - Anti-IGFBP2 antibody [EPR18012-257] - BSA and Azide free (ab225763)

IGFBP2 Immunohistochemistry (Frozen sections) staining using rabbit Anti-IGFBP2 antibody

Immunohistochemical analysis of 4% PFA fixed, 0.2% TritonX-100 permeabilized mouse brain (choroid plexus) tissue labeling IGFBP2 with ab188200 at 1/500 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution. Cytoplasmic staining in the epithelial cells of choroid plexus on mouse tissue section is observed. Counter stained with DAPI.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.
Perform heat mediated antigen retrieval using Tris-EDTA (pH 9.0) (ab94681).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab188200).



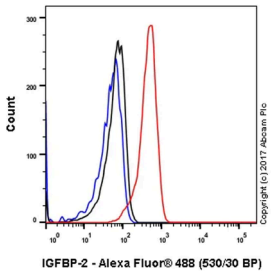
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGFBP2 antibody [EPR18012-257] - BSA and Azide free (ab225763)

IGFBP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IGFBP2 antibody

Immunohistochemical analysis of paraffin-embedded mouse choroid plexus tissue labeling IGFBP2 with ab188200 at 1/1000 dilution, followed by a Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on mouse choroid plexus (PMID: 7525264; PMID: 7678219) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a Goat Anti-Rabbit IgG H&L (HRP) ready to use.
Perform heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

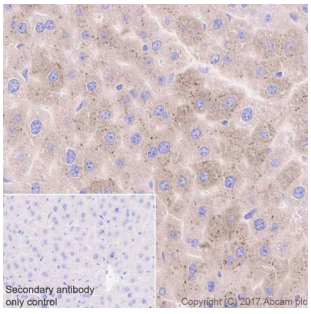
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Flow Cytometry (Intracellular) - Anti-IGFBP2 antibody [EPR18012-257] - BSA and Azide free (ab225763)

IGFBP2 Flow Cytometry (Intracellular) staining using rabbit Anti-IGFBP2 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) cell line labeling IGFBP2 with ab188200 at 1/60 (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) and an unlabelled 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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab188200).

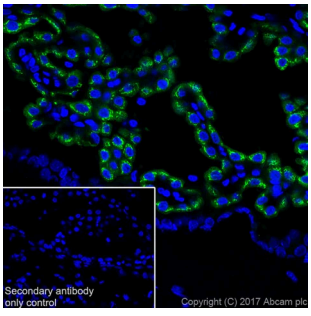


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGFBP2 antibody [EPR18012-257] - BSA and Azide free (ab225763)

IGFBP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IGFBP2 antibody

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling IGFBP2 with ab188200 at 1/1000 dilution, followed by a Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on mouse liver (PMID: 7678219) is observed. Counter stained with hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a Goat Anti-Rabbit IgG H&L (HRP) ready to use.
Perform heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab188200).



Immunohistochemistry (Frozen sections) - Anti-IGFBP2 antibody [EPR18012-257] - BSA and Azide free (ab225763)

IGFBP2 Immunohistochemistry (Frozen sections) staining using rabbit Anti-IGFBP2 antibody

Immunohistochemical analysis of 4% PFA fixed, 0.2% TritonX-100 permeabilized rat brain (choroid plexus) tissue labeling IGFBP2 with ab188200 at 1/500 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution. Cytoplasmic staining in the epithelial cells of choroid plexus on rat tissue section is observed. Counter stained with DAPI.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.
Perform heat mediated antigen retrieval using Tris-EDTA (pH 9.0) (ab94681).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab188200).

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