abcam

ab188200

Anti-IGFBP2 antibody [EPR18012-257]

Anti-IGFBP2 antibody [EPR18012-257] (ab188200) is a rabbit monoclonal antibody detecting IGFBP2 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, IHC-Fr**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 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	EPR18012-257
Purification technique	Affinity purification Protein A
Concentration	0.598 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30

Notes	-

Expected

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

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Expected

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

IHC-Fr

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Rat
Dilution info	1/500
Notes	-

Expected

Species	Human

Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/60
Notes	-

Species	Human
Dilution info	1/60
Notes	-

Expected

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

IHC-P

Tested

Species	Mouse
Dilution info	1/1000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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	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

What is this antibody validated in?
Anti-IGFBP2 antibody [EPR18012-257] (ab188200) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr) in Human, Mouse, Rat samples.

What is the molecular weight of IGFBP2?
Anti-IGFBP2 [EPR18012-257] (ab188200) specifically detects a band for IGFBP2 (UniProt: P18065) at a molecular weight of 33kDa.

Trusted by the scientific community
Anti-IGFBP2 [EPR18012-257] (ab188200) was first used in a scientific publication in 2017 and has been cited over 10 times in peer-reviewed journals.

Other related products
We have a range of other formats of antibody clone [EPR18012-257] also available for your convenience: ab188200, Carrier free - ab225763

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.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

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

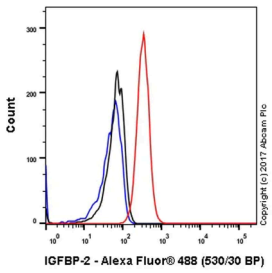
We do not recommend this combination. It is not covered by our product promise.

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.

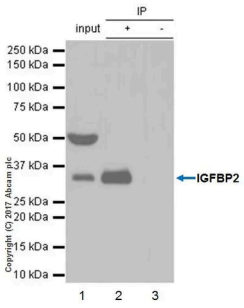
9 product images



Flow Cytometry (Intracellular) - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

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.



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

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.

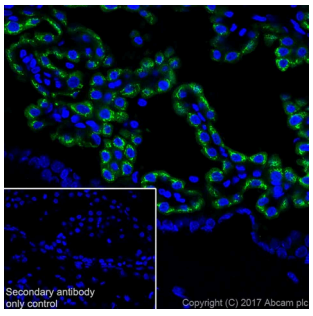
Exposure time: 1 second.

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

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

Predicted band size: 35 kDa

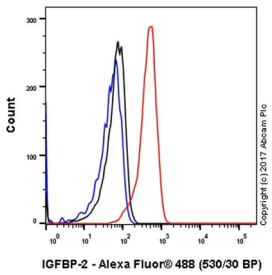
Exposure time: 1s



Immunohistochemistry (Frozen sections) - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

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

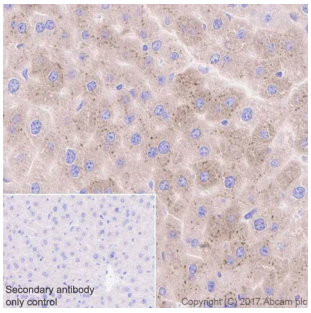
Immunohistochemical analysis of 4% PFA fixed, 0.2% TritonX-100 permeabilized rat brain (choroid plexus) tissue labeling IGFBP2 with ab188200 at 1/500 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution. Cytoplasmic staining in the epithelial cells of choroid plexus 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).



Flow Cytometry (Intracellular) - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

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

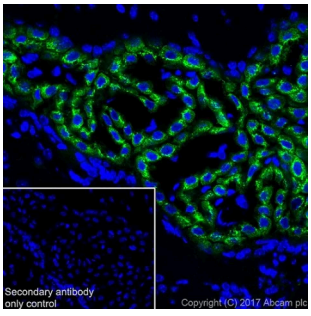
Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling IGFBP2 with ab188200 at 1/1000 dilution, followed by a Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on mouse liver (PMID: 7678219) is observed. Counter stained with hematoxylin.
Secondary antibody only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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

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).

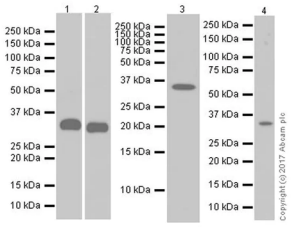


Immunohistochemistry (Frozen sections) - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

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).



Western blot - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

Blocking: 5% NFDM/TBST.
The expression profile observed on T-47D is consistent with what has been described in the literature (PMID: 23515291).

All lanes:
Western blot - Anti-IGFBP2 antibody [EPR18012-257] (ab188200) at 1/1000 dilution

Lane 1:
Mouse serum at 20 µg

Lane 2:
T-47D (human ductal breast epithelial tumor epithelial cell) whole cell lysate at 20 µg

Lane 3:
Rat serum at 20 µg

Lane 4:
RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 20 µg

Secondary

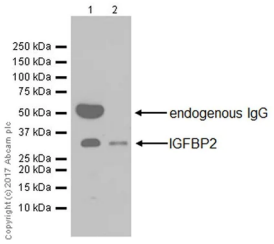
All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 35 kDa

Observed band size: 33 kDa

Exposure time: 3min



Western blot - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

IGFBP2 Western blot staining using rabbit Anti-IGFBP2 antibody

Blocking: 5% NFDM/TBST.
The band in lane 1 is human IgG heavy chain which is often observed in serum and plasma samples.

All lanes:
Western blot - Anti-IGFBP2 antibody [EPR18012-257] (ab188200) at 1/1000 dilution

Lane 1:
Human serum at 20 µg

Lane 2:
Human liver lysate at 20 µg

Secondary

All lanes:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 35 kDa

Observed band size: 33 kDa

Exposure time: 3min

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