abcam

Product datasheet

Anti-IGFBP2 antibody [EPR18012-257] ab188200

Recombinant RabMAb

1 Abreviews 2 References 10 Images

Overview

Product name	Anti-IGFBP2 antibody [EPR18012-257]
Description	Rabbit monoclonal [EPR18012-257] to IGFBP2
Host species	Rabbit
Tested applications	**Suitable for:** IHC-Fr, IP, WB, IHC-P, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human, rat and mouse serum; human liver lysate; T-47D and RAW 264.7 whole cell lysate. IHC-P: Mouse choroid plexus and liver tissue. IHC-Fr: Mouse and rat brain (choroid plexus). Flow Cyt (intra): T-47D and RAW 264.7 cells. IP: Human serum.
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**.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18012-257
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab188200 in the following tested applications.

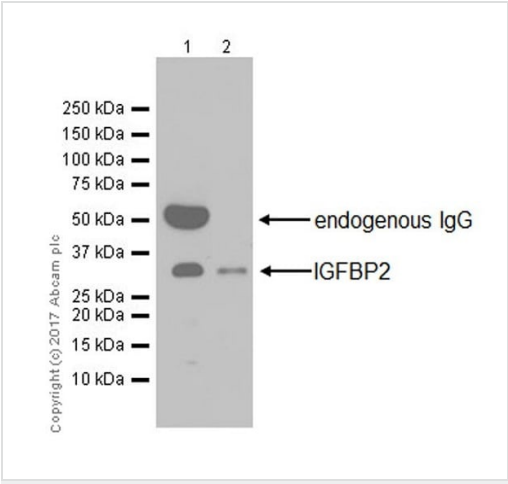
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr	★★★★☆ (1)	1/500.
IP		1/30.
WB		1/1000. Detects a band of approximately 33 kDa (predicted molecular weight: 33 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. This antibody is not suitable for human and rat species in IHC application due to non-specific or negative staining.
Flow Cyt (Intra)		1/60.

Target

Function	Inhibits IGF-mediated growth and developmental rates. IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors.
Sequence similarities	Contains 1 IGFBP N-terminal domain. Contains 1 thyroglobulin type-1 domain.
Domain	The C-terminus is required for IGF-binding and growth inhibition.
Post-translational modifications	O-glycosylated.
Cellular localization	Secreted.

Images



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

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

Lane 1 : Human serum

Lane 2 : Human liver lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

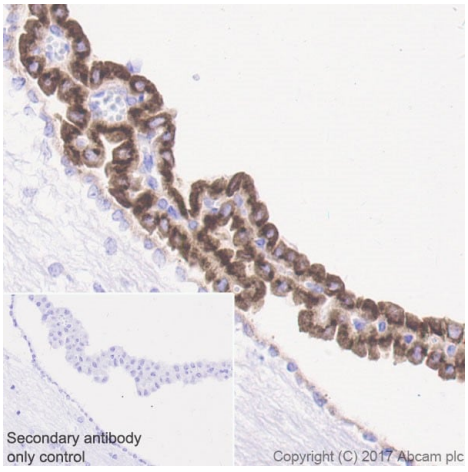
Developed using the ECL technique.

Predicted band size: 33 kDa
Observed band size: 33 kDa

Exposure time: 3 minutes

Blocking: 5% NFDM/TBST.

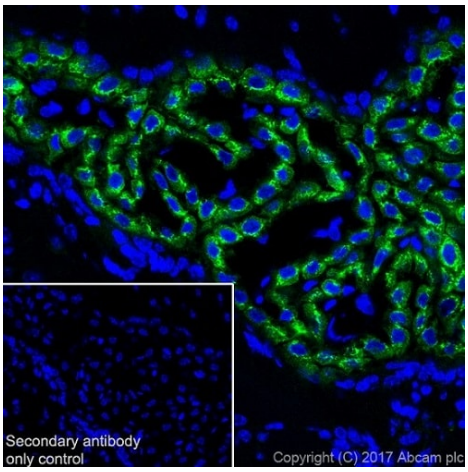
The band in lane 1 is human IgG heavy chain which is often observed in serum and plasma samples.



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

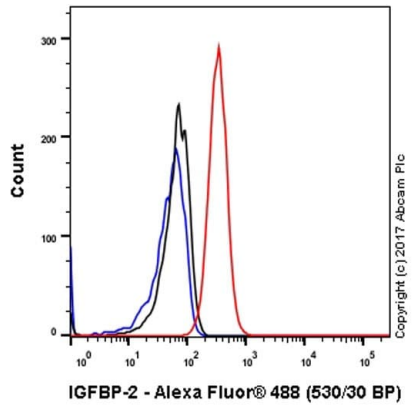
Immunohistochemical analysis of paraffin-embedded mouse choroid plexus tissue labeling IGFBP2 with ab188200 at 1/1000 dilution, followed by a Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on mouse choroid plexus (PMID: 7525264; PMID: 7678219) is observed. Counter stained with hematoxylin.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



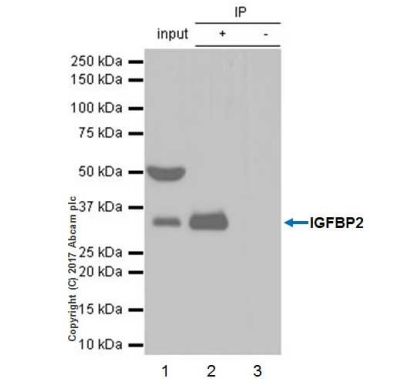
Immunohistochemistry (Frozen sections) - Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

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**).



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

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)

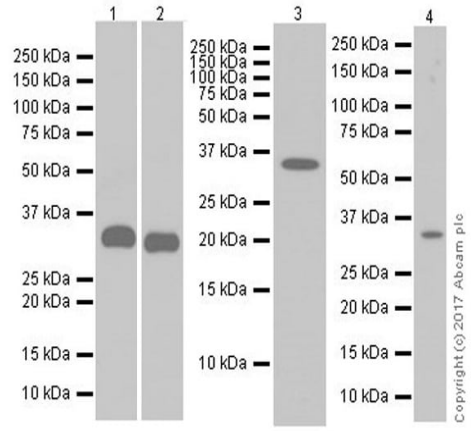
IGFBP2 was immunoprecipitated from 0.35 mg of human serum with ab188200 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab188200 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

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.



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

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

Lane 1 : Mouse serum
Lane 2 : T-47D (human ductal breast epithelial tumor epithelial cell) whole cell lysate
Lane 3 : Rat serum
Lane 4 : RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

Lysates/proteins at 20 µg per lane.

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

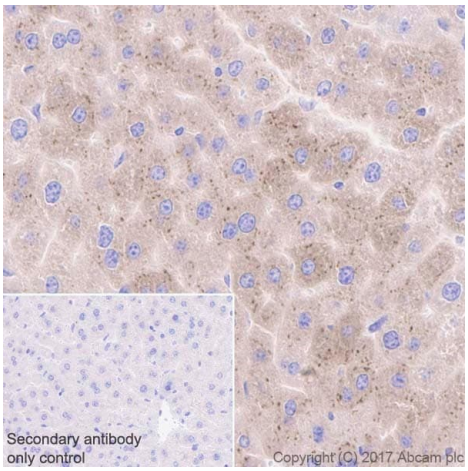
Developed using the ECL technique.

Predicted band size: 33 kDa
Observed band size: 33 kDa

Exposure time: 3 minutes

Blocking: 5% NFDM/TBST.

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



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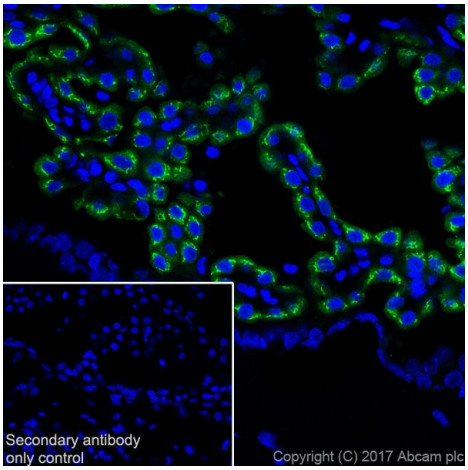
Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling IGFBP2 with ab188200 at 1/1000 dilution, followed by a Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on mouse liver (PMID: 7678219) is observed. Counter stained with hematoxylin.
Secondary antibody only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



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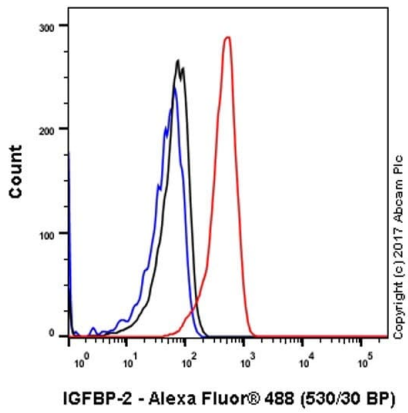

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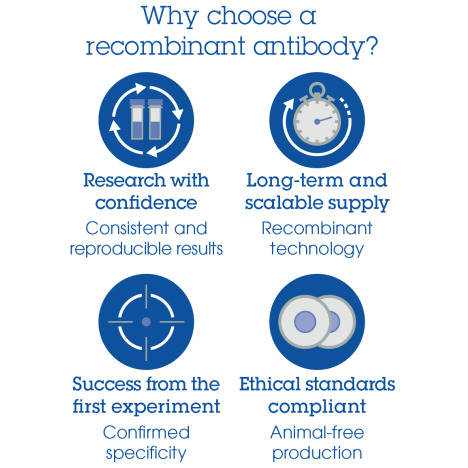

Anti-IGFBP2 antibody [EPR18012-257] (ab188200)

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