abcam

ab251435

Anti-IGFBP4 antibody [EPR19762] - 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	EPR19762
Purification technique	Affinity purification Protein A
Concentration	1.005 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information IGFBP4

Function	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.

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

ab251435 is the carrier-free version of ab205581.

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.

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

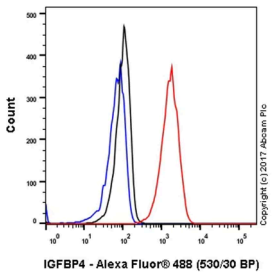
We do not recommend this combination. It is not covered by our product promise.

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.

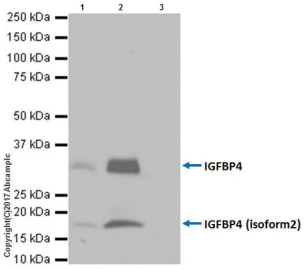
5 product images



Flow Cytometry (Intracellular) - Anti-IGFBP4 antibody [EPR19762] - BSA and Azide free (ab251435)

IGFBP4 Flow Cytometry (Intracellular) staining using rabbit Anti-IGFBP4 antibody

This data was developed using ab205581, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed A549 (human lung carcinoma cell line) cell line labeling IGFBP4 with ab205581 at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-IGFBP4 antibody [EPR19762] - BSA and Azide free (ab251435)

This data was developed using ab205581, the same antibody clone in a different buffer formulation.
IGFBP4 was immunoprecipitated from 0.35 mg of A549 (human lung carcinoma cell line) whole cell lysate with ab205581 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab205581 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

Lane 1: A549 whole cell lysate 10 µg (Input).
Lane 2: ab205581 IP in A549 whole cell lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab205581 in A549 whole cell lysate.

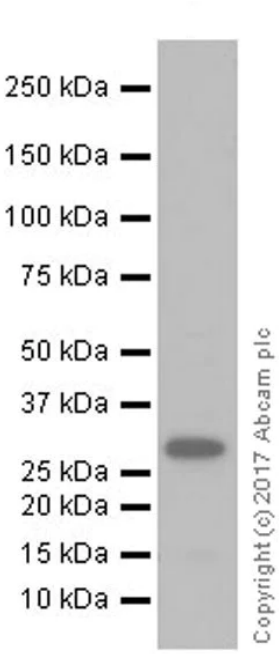
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.

Note: Human IGFBP4 has 2 isoforms detected at 28 kDa and 18 kDa.

All lanes:
Immunoprecipitation - Anti-IGFBP4 antibody [EPR19762] (ab205581)

Predicted band size: 28 kDa



Western blot - Anti-IGFBP4 antibody [EPR19762] - BSA and Azide free (ab251435)

IGFBP4 Western blot staining of Human placenta tissue lysate using rabbit Anti-IGFBP4 antibody

This data was developed using ab205581, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-IGFBP4 antibody [EPR19762] (ab205581) at 1/1000 dilution

All lanes:
Human placenta tissue lysate at 10 µg

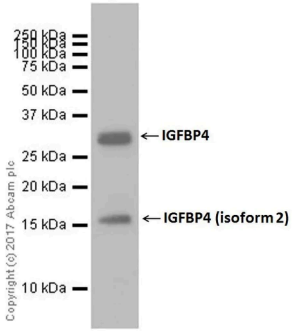
Secondary

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

Predicted band size: 28 kDa

Observed band size: 28 kDa

Exposure time: 3min



Western blot - Anti-IGFBP4 antibody [EPR19762] - BSA and Azide free (ab251435)

IGFBP4 Western blot staining of A549 (human lung carcinoma cell line) whole cell lysate using rabbit Anti-IGFBP4 antibody

This data was developed using ab205581, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

Human IGFBP4 has 2 isoforms detected at 28 kDa and 18 kDa.

All lanes:
Western blot - Anti-IGFBP4 antibody [EPR19762] (ab205581) at 1/1000 dilution

All lanes:
A549 (human lung carcinoma cell line) whole cell lysate at 10 µg

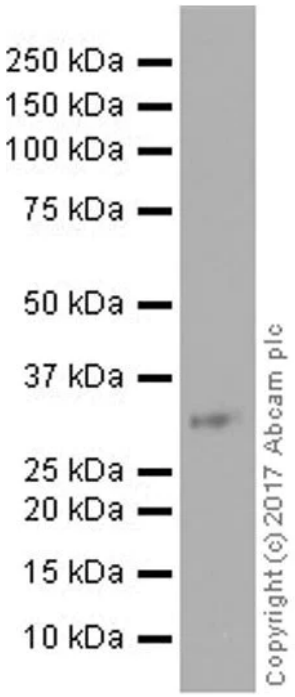
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 28 kDa

Observed band size: 18 kDa, 28 kDa

Exposure time: 3s



Western blot - Anti-IGFBP4 antibody [EPR19762] - BSA and Azide free (ab251435)

This data was developed using ab205581, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-IGFBP4 antibody [EPR19762] (ab205581) at 1/1000 dilution

All lanes:
HT-29 (human colorectal adenocarcinoma cell line) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 28 kDa, 504 kDa

Observed band size: 28 kDa, 85 kDa

Exposure time: 3min

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