abcam

Product datasheet

Anti-IGFBP4 antibody [EPR19762] ab205581

Recombinant RabMAb

6 Images

Overview

Product name	Anti-IGFBP4 antibody [EPR19762]
Description	Rabbit monoclonal [EPR19762] to IGFBP4
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A549 and HT-29 whole cell lysates; Human placenta lysate. Flow Cyt (intra): A549 cells. IP: A549 whole cell lysate.
General notes	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 production For more information **see here**. 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, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19762
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab205581 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
WB		1/1000. Detects a band of approximately 28, 18 kDa (predicted molecular weight: 28 kDa).
IP		1/30.
Flow Cyt (Intra)		1/500.

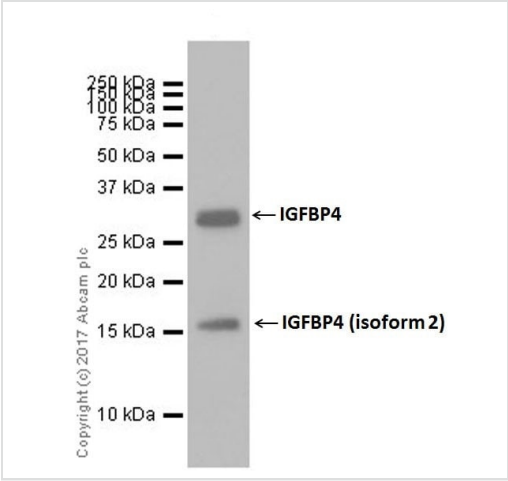
Target

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.

Sequence similarities Contains 1 IGFBP N-terminal domain.
Contains 1 thyroglobulin type-1 domain.

Cellular localization Secreted.

Images



Western blot - Anti-IGFBP4 antibody [EPR19762] (ab205581)

Anti-IGFBP4 antibody [EPR19762] (ab205581) at 1/1000 dilution +
A549 (human lung carcinoma cell line) whole cell lysate at 10 µg

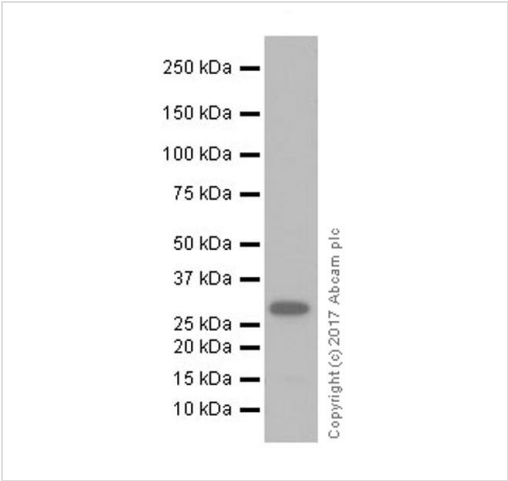
Secondary
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 28 kDa
Observed band size: 18,28 kDa

Exposure time: 3 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

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



Western blot - Anti-IGFBP4 antibody [EPR19762] (ab205581)

Anti-IGFBP4 antibody [EPR19762] (ab205581) at 1/1000 dilution + Human placenta tissue lysate at 10 µg

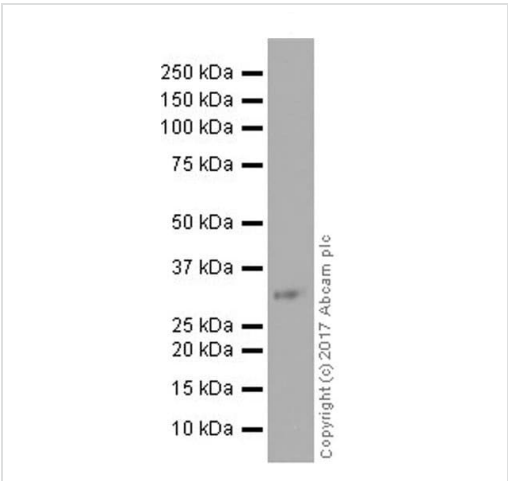
Secondary

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

Predicted band size: 28 kDa
Observed band size: 28 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-IGFBP4 antibody [EPR19762] (ab205581)

Anti-IGFBP4 antibody [EPR19762] (ab205581) at 1/1000 dilution + HT-29 (human colorectal adenocarcinoma cell line) whole cell lysate at 20 µg

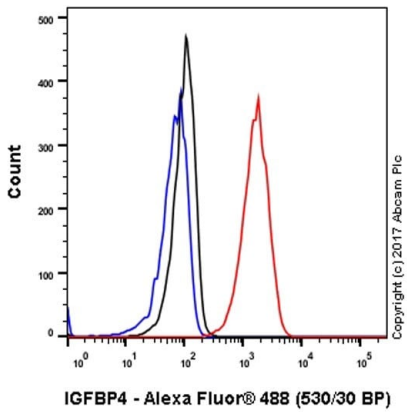
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Predicted band size: 28 kDa
Observed band size: 28 kDa

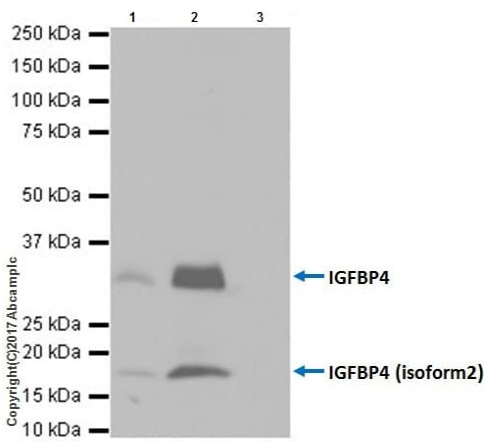
Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-IGFBP4 antibody [EPR19762] (ab205581)

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] (ab205581)

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).

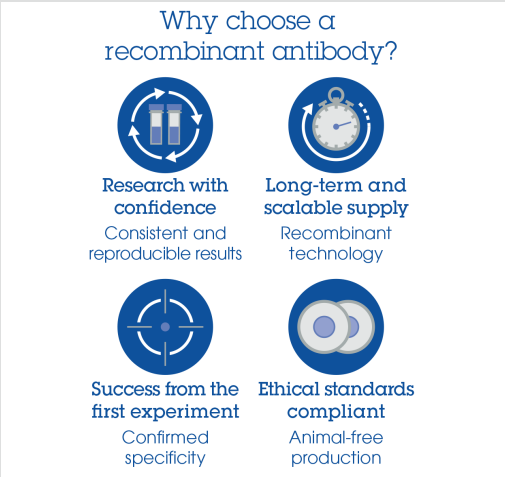
Lane 2: ab205581 IP in A549 whole cell lysate.

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.



Anti-IGFBP4 antibody [EPR19762] (ab205581)

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