

IGFBP4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6941a

Specification

IGFBP4 Antibody (N-term) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Antigen Region WB, FC,E <u>P22692</u> <u>P24854</u>, <u>O05716</u> Human, Mouse, Rat Bovine, Pig Rabbit Polyclonal Rabbit IgG 66-92

IGFBP4 Antibody (N-term) - Additional Information

Gene ID 3487

Other Names Insulin-like growth factor-binding protein 4, IBP-4, IGF-binding protein 4, IGFBP-4, IGFBP4, IBP4

Target/Specificity

This IGFBP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-92 amino acids from the N-terminal region of human IGFBP4.

Dilution WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IGFBP4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

IGFBP4 Antibody (N-term) - Protein Information

Name IGFBP4



Synonyms IBP4

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.

Cellular Location Secreted.

IGFBP4 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

IGFBP4 Antibody (N-term) - Images



All lanes : Anti-IGFBP4 Antibody (N-term) at 1:2000 dilution Lane 1: A549 whole cell lysate Lane 2: Mouse ovary lysate Lane 3: Rat ovary lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





Anti-IGFBP4 Antibody (N-term) at 1:2000 dilution + Rat ovary lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing A549 cells stained with AP6941a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP6941a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 μ g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

IGFBP4 Antibody (N-term) - Background

IGFBP4 has an IGFBP domain and a thyroglobulin type-I domain. The protein binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma in both glycosylated and non-glycosylated forms. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors.

IGFBP4 Antibody (N-term) - References

Durai,R., et.al., Colorectal Dis 9 (7), 625-631 (2007) Laursen,L.S., et.al., Mol. Endocrinol. 21 (5), 1246-1257 (2007)