10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IGFBP3 Antibody (S183)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7641D

Specification

IGFBP3 Antibody (S183) - Product Information

Application	**WB,E**
Primary Accession	P17936
Other Accession	P16611, P20959
Reactivity	**Human, Hamster, Mouse**
Predicted	**Bovine, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**162-189**

IGFBP3 Antibody (S183) - Additional Information

Gene ID 3486

Other Names
Insulin-like growth factor-binding protein 3, IBP-3, IGF-binding protein 3, IGFBP-3, IGFBP3, IBP3

Target/Specificity
This IGFBP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 162-189 amino acids from human IGFBP3.

Dilution
WB~~1:1000
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
IGFBP3 Antibody (S183) is for research use only and not for use in diagnostic or therapeutic procedures.

IGFBP3 Antibody (S183) - Protein Information

Name IGFBP3

Synonyms IBP3

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:10874028, PubMed:19556345). Also exhibits IGF- independent antiproliferative and apoptotic effects mediated by its receptor TMEM219/IGFBP-3R (PubMed:20353938). Inhibits the positive effect of humanin on insulin sensitivity (PubMed:19623253). Promotes testicular germ cell apoptosis (PubMed:19952275). Acts via LRP- 1/alpha2M receptor, also known as TGF-beta type V receptor, to mediate cell growth inhibition independent of IGF1 (PubMed:9252371). Mechanistically, induces serine-specific dephosphorylation of IRS1 or IRS2 upon ligation to its receptor, leading to the inhibitory cascade (PubMed:15371331). In the nucleus, interacts with transcription factors such as retinoid X receptor-alpha/RXRA to regulate transcriptional signaling and apoptosis (PubMed:10874028).

Cellular Location
Secreted. Nucleus

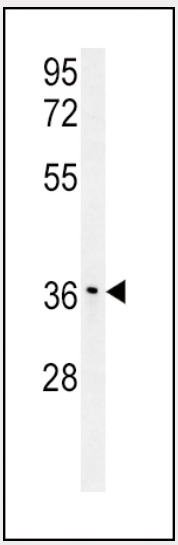
Tissue Location
Expressed by most tissues. Present in plasma.

IGFBP3 Antibody (S183) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IGFBP3 Antibody (S183) - Images



IGFBP3-S183(Cat.#AP7641d) western blot analysis in mouse stomach tissue lysates (15ug/lane).This demonstrates the IGFBP antibody detected IGFBP protein (arrow).

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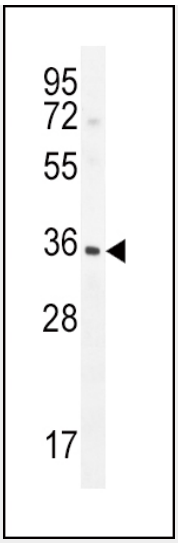
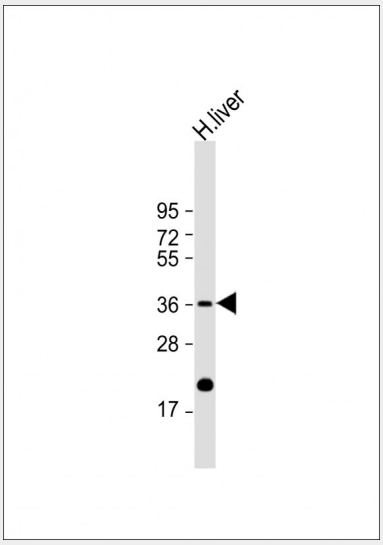


IGFBP3-S183(Cat.#AP7641d) western blot analysis in CHO tissue lysates (15ug/lane).This demonstrates the IGFBP antibody detected IGFBP protein (arrow).



Anti-IGFBP-3 Antibody at 1:1000 dilution + human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 32 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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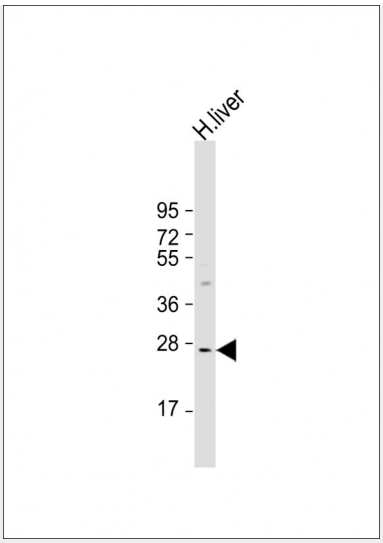

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IGFBP3 Antibody (S183) - Background

IGFBP3 is a member of the insulin-like growth factor binding protein (IGFBP) family with an IGFBP domain and a thyroglobulin type-I domain. This protein forms a ternary complex with insulin-like growth factor acid-labile subunit (IGFALS) and either insulin-like growth factor (IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors.

IGFBP3 Antibody (S183) - References

Muzumdar,R.H., Diabetes 55 (10), 2788-2796 (2006) Novosyadlyy,R., Growth Horm. IGF Res. 15 (5), 313-323 (2005)