

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

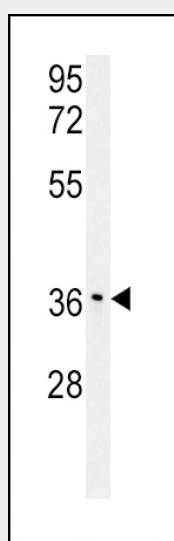
Tissue Location

Expressed by most tissues. Present in plasma.

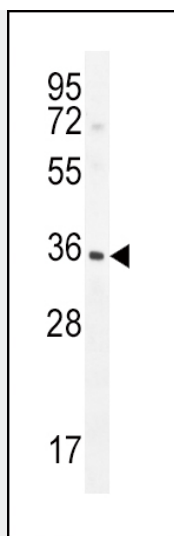
IGFBP3 Antibody (S183) - Protocols

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

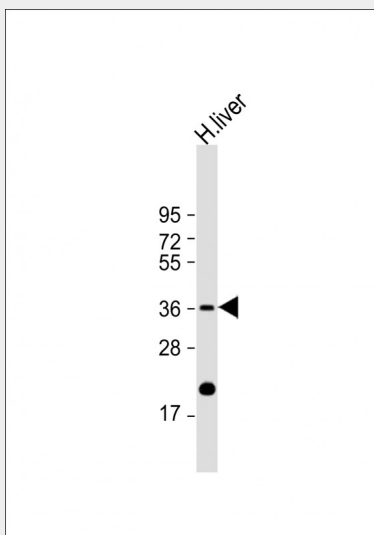
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IGFBP3 Antibody (S183) - Images

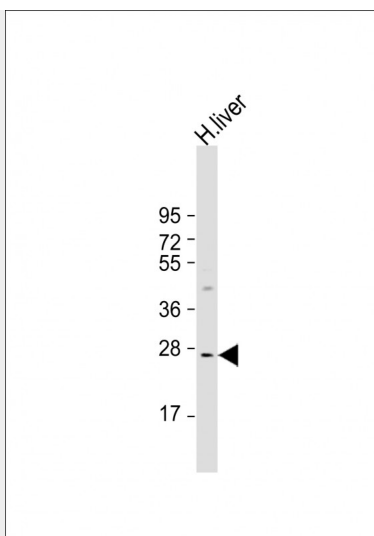
IGFBP3-S183(Cat.#AP7641d) western blot analysis in mouse stomach tissue lysates (15ug/lane). This demonstrates the IGFBP antibody detected IGFBP protein (arrow).



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.



Anti-IGFBP-3-S183 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.

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)