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IGFBP3 Antibody (S183) Blocking Peptide
Synthetic peptide
Catalog # BP7641d

Specification

IGFBP3 Antibody (S183) Blocking Peptide - Product Information

Primary Accession P17936

IGFBP3 Antibody (S183) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody <a >AP7641d was selected from the S183 region of human IGFBP3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IGFBP3 Antibody (S183) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

IGFBP3 Antibody (S183) Blocking Peptide - Images

IGFBP3 Antibody (S183) Blocking Peptide - 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) Blocking Peptide - References

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