

Anti-IGFBP-3 Antibody
Catalog # ABO10817**Specification**

Anti-IGFBP-3 Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P17936
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Insulin-like growth factor-binding protein 3(IGFBP3) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-IGFBP-3 Antibody - Additional Information

Gene ID 3486

Other Names

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

Calculated MW

31674 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Secreted .

Tissue Specificity

Expressed by most tissues. Present in plasma.

Protein Name

Insulin-like growth factor-binding protein 3(IBP-3/IGF-binding protein 3/IGFBP-3)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human IGFBP-3(182-198aa IKKGHAKDSQRYKVDYE).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Contains 1 IGFBP N-terminal domain.

Anti-IGFBP-3 Antibody - 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](http://www.uniprot.org/citations/10874028), PubMed: [19556345](http://www.uniprot.org/citations/19556345)). Also exhibits IGF- independent antiproliferative and apoptotic effects mediated by its receptor TMEM219/IGFBP-3R (PubMed: [20353938](http://www.uniprot.org/citations/20353938)). Inhibits the positive effect of humanin on insulin sensitivity (PubMed: [19623253](http://www.uniprot.org/citations/19623253)). Promotes testicular germ cell apoptosis (PubMed: [19952275](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/9252371)). Mechanistically, induces serine-specific dephosphorylation of IRS1 or IRS2 upon ligation to its receptor, leading to the inhibitory cascade (PubMed: [15371331](http://www.uniprot.org/citations/15371331)). In the nucleus, interacts with transcription factors such as retinoid X receptor-alpha/RXRA to regulate transcriptional signaling and apoptosis (PubMed: [10874028](http://www.uniprot.org/citations/10874028)).

Cellular Location

Secreted. Nucleus

Tissue Location

Expressed by most tissues. Present in plasma.

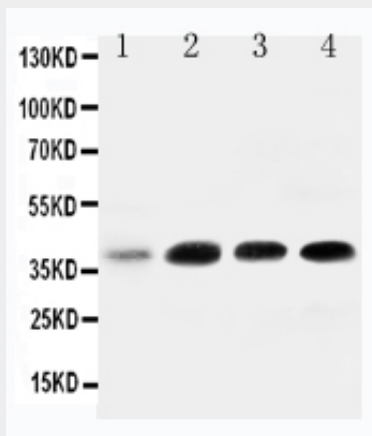
Anti-IGFBP-3 Antibody - Protocols

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

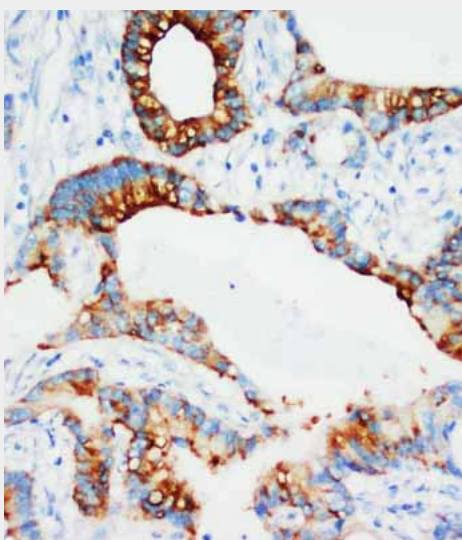
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-IGFBP-3 Antibody - Images



Anti-IGFBP-3 antibody, ABO10817, Western blotting All lanes: Anti IGFBP-3 (ABO10817) at 0.5ug/ml
Lane 1: 293T Whole Cell Lysate at 40ug
Lane 2: MCF- 7 Whole Cell Lysate at 40ug
Lane 3: A549 Whole Cell Lysate at 40ug
Lane 4: SW620 Whole Cell Lysate at 40ug
Predicted bind size: 32KD
Observed bind size: 40KD



Anti-IGFBP-3 antibody, ABO10817, IHC(P) IHC(P): Human Mammary Cancer Tissue

Anti-IGFBP-3 Antibody - Background

IGFBP3, Insulin-like growth factor-binding protein 3, is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. IGFBP3 is located on chromosome 7. The 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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.