

Anti-IGFBP-3 Antibody

Catalog # ABO10817

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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Secreted .
Tissue Specificity	Expressed by most tissues. Present in plasma.
Source	Eukaryota
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 Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
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 r° Constitution, 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.

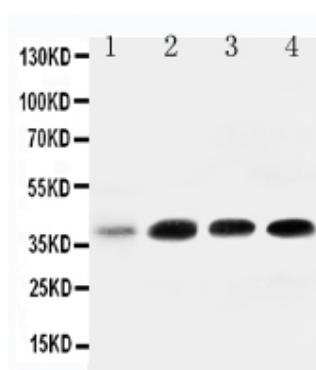
Protein Information

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.

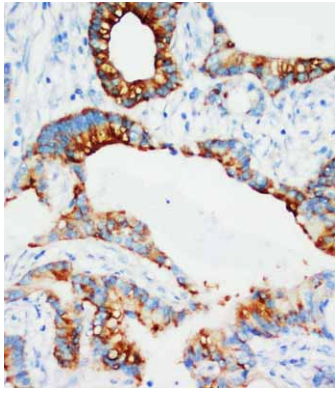
Background

IGFBP3, Insulin-like growth fator-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.

Images



Anti-IGFBP-3 antibody, ABO10817, Western blottingAll lanes: Anti IGFBP-3 (ABO10817) at 0.5ug/mlLane 1: 293T Whole Cell Lysate at 40ugLane 2: MCF- 7 Whole Cell Lysate at 40ugLane 3: A549 Whole Cell Lysate at 40ugLane 4: SW620 Whole Cell Lysate at 40ugPredicted bind size: 32KD
Observed bind size: 40KD



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.