BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-IGFBP3 Antibody Picoband®

Catalog Number: PA1498

About IGFBP3

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.

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Overview

Product Name	Anti-IGFBP3 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-IGFBP3 Antibody catalog # PA1498. Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P17936

Technical Details

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Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human IGFBP-3.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Rat

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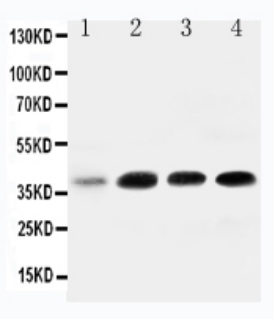
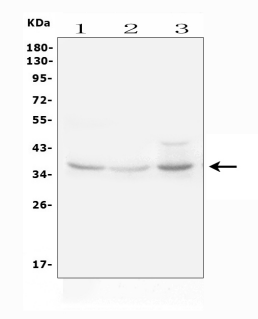
Anti-IGFBP3 Antibody Picoband® (PA1498) Images



Anti-IGFBP-3 antibody, PA1498, Western blottingAll lanes: Anti IGFBP-3 (PA1498) 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: 32KDObserved bind size: 40KD



Western blot analysis of IGFBP3 using anti-IGFBP3 antibody (PA1498). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat kidney tissue lysates, Lane 3: rat heart tissue lysates, After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IGFBP3 antigen affinity purified polyclonal antibody (Catalog # PA1498) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IGFBP3 at approximately 40KD. The expected band size for IGFBP3 is at 32KD.

3 Publications Citing This Product

1. PubMed ID: 24576658, Pu Xy, Wen Am, Liu Jm, Zheng Xg, Xiao Hj, Xu Zp, Wang Hp, Li D, Zhang Rl. J Urol. 2014 Sep;192(3):990-6. Doi: 10.1016/J.Juro.2014.02.042. Epub 2014 Feb 24. Shrna Constructs Targeting Igfbp-3 Alleviate Age Related Erectile Dysfunction In The Rat.

2. PubMed ID: 21595839, Pu Xy, Zheng Xg, Zhang Y, Xiao Hj, Xu Zp, Liu Jm, Wang Hp, Wen Am, Zhou Xx, Wu Yl. J Sex Med. 2011 Aug;8(8):2181-90. Doi: 10.1111/J.1743-6109.2011.02318.X. Epub 2011 May 19. Higher Expression Of Mrna And Protein Of Insulin-Like Growth Factor Bindi...

3. PubMed ID: 28760781, Correlation between insulin%u2011like growth factor binding protein 3 and metastasis%u2011associated gene 1 protein in esophageal squamous cell carcinoma

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