

## Anti-IGFBP3 Antibody Picoband®

Catalog Number: PB9710

### About IGFBP3

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.

### Overview

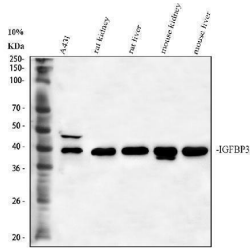
Product Name	Anti-IGFBP3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IGFBP3 Antibody Picoband® catalog # PB9710. Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , and 0.05 mg NaN <sub>3</sub> . *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

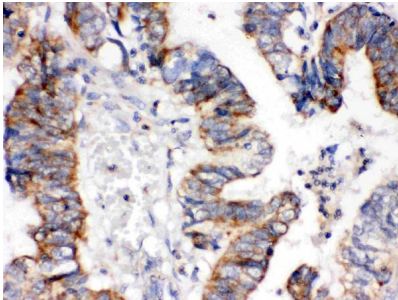
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human IGFBP-3, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human ELISA, 0.1-0.5ug/ml, - Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

## Anti-IGFBP3 Antibody Picoband® (PB9710) Images



Western blot analysis of IGFBP3 using anti-IGFBP3 antibody (PB9710). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates, Lane 2: rat kidney tissue lysates, Lane 3: rat liver tissue lysates, Lane 4: mouse kidney tissue lysates, Lane 5: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 (PB9710) 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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for IGFBP3 at approximately 40 kDa. The expected band size for IGFBP3 is at 32 kDa.



IHC analysis of IGFBP3 using anti-IGFBP3 antibody (PB9710). IGFBP3 was detected in paraffin-embedded section of Human Intestinal Cancer Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-IGFBP3 Antibody (PB9710) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

## 4 Publications Citing This Product

1. PubMed ID: 10.3892/mmr.2016.5046, Correlation between insulin-like growth factor binding protein 3 and metastasis-associated gene 1 protein in esophageal squamous cell carcinoma
2. PubMed ID: 24576658, Pu Xy, Wen Am, Liu Jm, Zheng Xg, Xiao Hj, Xu Zp, Wang Hp, Li D, Zhang Ri. 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.
3. PubMed ID: 21595839, Pu Xy, Zheng Xg, Zhang Y, Xiao Hj, Xu Zp, Liu Jm, Wang Hp, Wen Am, Zhou Xx, Wu Yi. 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...

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### Anti-IGFBP3 Antibody

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