

## Anti-TIMP3 Antibody Picoband®

Catalog Number: PB9831

### About TIMP3

Metalloproteinase inhibitor 3 is a protein that in humans is encoded by the TIMP3 gene. It is mapped to 22q12.1-q13.2. This gene belongs to the tissue inhibitor of metalloproteinases gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix (ECM). Expression of this gene is induced in response to mitogenic stimulation and this netrin domain-containing protein is localized to the ECM. Mutations in this gene have been associated with the autosomal dominant disorder Sorsby's fundus dystrophy.

### Overview

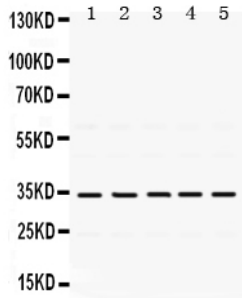
Product Name	Anti-TIMP3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TIMP3 Antibody Picoband® catalog # PB9831. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior 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, 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	P35625

### Technical Details

Immunogen	E. coli-derived human TIMP3 recombinant protein (Position: C24-P211). Human TIMP3 shares 97.9% and 97.3% amino acid (aa) sequence identity with mouse and rat TIMP3, respectively.
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	ELISA, 0.1-0.5ug/ml, - Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

## Anti-TIMP3 Antibody Picoband® (PB9831) Images



Western blot analysis of TIMP3 using anti-TIMP3 antibody (PB9831). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Rat Kidney Tissue Lysate at 50ug, Lane 2: Mouse Ovary Tissue Lysate at 50ug, Lane 3: HELA Whole Cell Lysate at 40ug, Lane 4: MCF-7 Whole Cell Lysate at 40ug, Lane 5: SMMC Whole Cell Lysate at 40ug. 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-TIMP3 antigen affinity purified polyclonal antibody (Catalog # PB9831) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TIMP3 at approximately 34 kDa. The expected band size for TIMP3 is at 34 kDa.

## 3 Publications Citing This Product

1. PubMed ID: 33649809, Nie L,Liu M,Chen J,Wu Q,Li Y,Yi J,Zheng X,Zhang J,Chu C,Yang J.Hydrogen sulfide ameliorates doxorubicin-induced myocardial fibrosis in rats via the PI3K/AKT/mTOR pathway.Mol Med Rep.2021 Apr;23(4):299.doi:10.3892/mmr.2021.11938.Epub 2021 Mar 2.PMID:336498
2. PubMed ID: 23819566, Promoter methylation and expression of TIMP3 gene in gastric cancer
3. PubMed ID: 17657847, Bai Yx, Yi Ji, Li Jf, Sui H. World J Gastroenterol. 2007 Jul 28;13(28):3883-5. Clinicopathologic Significance Of Bag1 And Timp3 Expression In Colon Carcinoma.

Visit [bosterbio.com/anti-timp3-picoband-trade-antibody-pb9831-boster.html](https://www.bosterbio.com/anti-timp3-picoband-trade-antibody-pb9831-boster.html) to see all 3 publications.

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Anti-TIMP3 Antibody

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