

# Anti-TIMP2 (Tissue Inhibitor of Metalloproteinase 2) Monoclonal Antibody

Catalog Number: M01037

## About TIMP2

This monoclonal antibody recognizes a protein of 21kDa, identified as tissue inhibitor of metalloproteinases-2 (TIMP-2). It is closely related to TIMP-1 and shows the highest binding affinity to both the latent (pro) and active forms of 72kDa Type IV collagenase (also known as MMP-2 or gelatinase A). It also has affinity for the active form of 92kDa Type IV collagenase (also known as MMP-9 or gelatinase B). TIMP-2 inhibits the proteolytic invasiveness of tumor cells and normal placental trophoblast cells.

## Overview

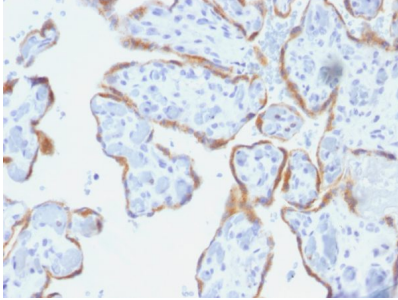
Product Name	Anti-TIMP2 (Tissue Inhibitor of Metalloproteinase 2) Monoclonal Antibody
Reactive Species	Cow, Guinea pig, Human, Mouse, Rabbit, Rat, Zebrafish
Description	Boster Bio Anti-TIMP2 (Tissue Inhibitor of Metalloproteinase 2) Monoclonal Antibody (Catalog # M01037). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Mouse, Rat, Guinea pig, Rabbit, Cow, Zebrafish.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: SPM356
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P16035

## Technical Details

Immunogen	A synthetic peptide from the N-terminus of human TIMP2 protein (aa56-66) (DSGNDIYGNPI)
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG2a, kappa
Form	Liquid

Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&amp;degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

## Anti-TIMP2 (Tissue Inhibitor of Metalloproteinase 2) Monoclonal Antibody (M01037) Images



Formalin-fixed, paraffin-embedded human Placenta stained with Anti-TIMP2 Monoclonal Antibody (SPM356).

## 7 Publications Citing This Product

1. PubMed ID: 27575818, Effect of Novel Gasotransmitter hydrogen sulfide on renal fibrosis and connexins expression in diabetic rats
2. PubMed ID: 27453531, The inhibition of calpains ameliorates vascular restenosis through MMP2/TGF- $\beta$ 1 pathway
3. PubMed ID: 22200632, Zhang Jt, Fan Yz, Chen Cq, Zhao Zm, Sun W. Int J Oncol. 2012 May;40(5):1501-14. Doi: 10.3892/Ijo.2011.1314. Epub 2011 Dec 21. Norcantharidin: A Potential Antiangiogenic Agent For Gallbladder Cancers In Vitro And In Vivo.

Visit [bosterbio.com/anti-timp2-tissue-inhibitor-of-metalloproteinase-2-antibody-m01037-boster.html](http://bosterbio.com/anti-timp2-tissue-inhibitor-of-metalloproteinase-2-antibody-m01037-boster.html) to see all 7 publications.

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