

Anti-TIMP4 Monoclonal Antibody

Catalog Number: M07131

About TIMP4

Tissue inhibitor of metalloproteinase-4 (TIMP-4) is member of the TIMP family of inhibitors of matrix metalloproteinase (MMP) activities. In addition, TIMPs have non-MMP associated functions, including roles in growth promotion, apoptosis, and angiogenesis. All four members of the TIMP gene family form a similar secondary structure due to the formation of six highly conserved disulfide bonds. It has been reported that some TIMPs, TIMP4 included, can bind a tetraspanin in the plasma membrane, initiating an intra-cellular signaling cascade. Elevated levels of TIMP4 have been associated with breast cancer progression and heart disease.

Overview

Product Name	Anti-TIMP4 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-TIMP4 Monoclonal Antibody (Catalog # M07131). Tested in ELISA, IHC applications. This antibody reacts with Human.
Application	ELISA, IHC, WB
Clonality	Monoclonal Clone: 9:4-7 IgG2b kappa
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Mouse
Uniprot ID	Q99727

Technical Details

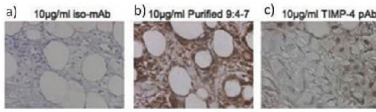
Immunogen	Anti-TIMP4 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with full length human TIMP4 protein followed by hybridoma development.
Predicted Reactive Species	Chimpanzee, Macaque
Isotype	IgG2b kappa
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm
Purification	Anti-TIMP4 was purified from clarified mouse ascetic fluid by Protein A chromatography followed

by extensive dialysis against the buffer stated above. TIMP4 antibody is specific for human TIMP4 protein. This antibody reacts with human TIMP4 in tissue sections of formalin-fixed, paraffin-embedded In ELISAs and Native-PAGE, this antibody does not cross-react with recombinant human TIMP-1, -2 or -3. A BLAST analysis was used to suggest cross-reactivity with TIMP4 from human and mouse sources based on the immunizing sequence. Cross-reactivity with TIMP-4 from other sources has not been determined.

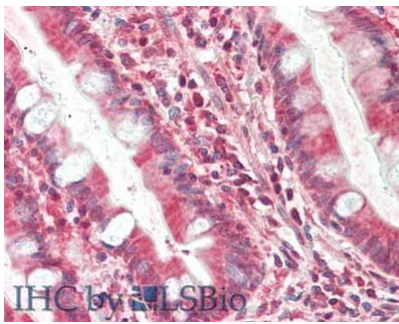
Suggested Dilutions

ELISA: 1:20,000 - 1:100,000
IHC: 5-10 μ g/mL
WB: 1:2,000 to 1:10,000
Anti-TIMP4 antibody has been tested for use in ELISA, Native - Western, and IHC (P). SDS-PAGE - Western Blot not useful for endogenous detection. Specific conditions for reactivity should be optimized by the end user.

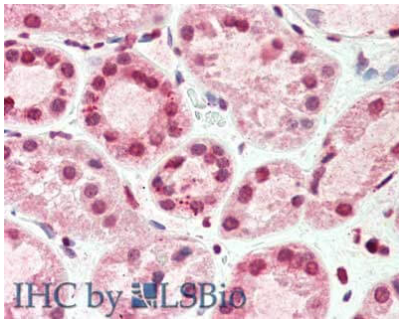
Anti-TIMP4 Monoclonal Antibody (M07131) Images



Immunohistochemistry of Mouse Anti-TIMP4 Antibody.
Tissue: human breast carcinoma. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: a) isotype specific IgG2bk monoclonal; b) monoclonal TIMP-4 antibody (clone 9:4-7); and c) polyclonal TIMP-4, each at 10 µg/mL. Secondary antibody: Peroxidase secondary antibody at 1:10,000 for 45 min at RT. Localization: TIMP-4 is secreted. Staining: TIMP-4 as precipitated brown signal.



Immunohistochemistry of Mouse anti-TIMP4 antibody.
Tissue: human small intestine. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: anti-TIMP4 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Staining: TIMP4 as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunohistochemistry of Mouse anti-TMIP4 antibody.
Tissue: human kidney. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: anti-TIMP4 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Staining: TIMP4 as precipitated red signal with hematoxylin purple nuclear counterstain.

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Anti-TIMP4 Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.