

Product datasheet for **TA396776S**

TIMP4 Mouse Monoclonal Antibody [Clone ID: 9:4-7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9:4-7
Applications:	ELISA, IHC, WB
Recommended Dilution:	WB: 1:2,000 to 1:10,000 IHC: 5-10µg/mL ELISA: 1:20,000 - 1:100,000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b, kappa
Clonality:	Monoclonal
Immunogen:	Anti-TIMP4 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with full length human TIMP4 protein followed by hybridoma development.
Specificity:	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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.



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Gene Name: TIMP metalloproteinase inhibitor 4

Database Link: [Entrez Gene 7079 Human Q99727](#)

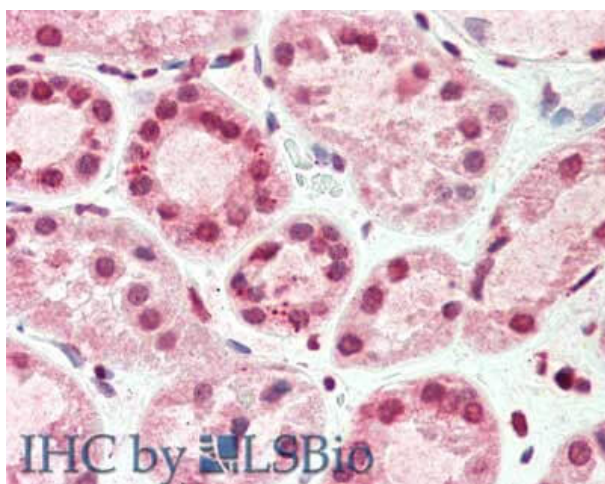
Background: Tissue inhibitor of metalloproteinase-4 (TIMP-4) is member of the TIMP family of inhibitors of matrix metalloproteinase (MMP) activities. In addition, TIMPs have non-MMP associated functions, including roles in growth promotion, apoptosis, and angiogenesis. All four members of the TIMP gene 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.

Synonyms: mouse anti-TIMP4 antibody, Tissue inhibitor of metalloproteinase-4, Metalloproteinase inhibitor 4, TIMP-4, TIMP 4, TIMP4 antibody, anti-TIMP-4 antibody

Note: 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.

Protein Families: Druggable Genome, Secreted Protein

Product images:



Immunohistochemistry of Mouse anti-TIMP4 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.