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anti-TIMP4 antibody





Publication



Go to Product page

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Quantity:	100 μg
Target:	TIMP4
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TIMP4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA
Product Details	
Immunogen:	Anti-TIMP4 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations
	with full legnth human TIMP4 protein followed by hybridoma development.
	Immunogen Type: RecombinantProtein
Clone:	9:4-7
Isotype:	IgG2b kappa
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.

Product Details

Characteristics

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.

Sterility:

Sterile filtered

Target Details

Target:	TIMP4
Alternative Name:	TIMP4 (TIMP4 Products)
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: Tissue inhibitor of metalloproteinase-4, Metalloproteinase inhibitor 4, TIMP-4, TIMP 4, TIMP4 antibody, anti-TIMP4 antibody
Gene ID:	7079
NCBI Accession:	NM_003256
UniProt:	Q99727

Application Details

Application Notes:	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.
Comment:	Gene Name: TIMP4

Restrictions:

For Research Use only

Handling

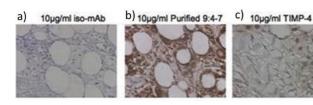
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage: Storage Comment:	4 °C/-20 °C Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. 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.

Publications

Product cited in:

Purkey, Woolfrey, Crosby, Stich, Chick, Aoto, DellAcqua: "AKAP150 Palmitoylation Regulates Synaptic Incorporation of Ca2+-Permeable AMPA Receptors to Control LTP." in: **Cell reports**, Vol. 25, Issue 4, pp. 974-987.e4, (2018) (PubMed).

Validation report #104424 for Immunohistochemistry (IHC)



Immunohistochemistry

Image 1. 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) TIMP-4 antibody (clone 9:4-7); and c) TIMP-4 each at 10 μg/mL. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: TIMP-4 is secreted. Staining: TIMP-4 as precipitated brown signal.