

Datasheet for ABIN1043743

anti-TIMP4 antibody



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Overview

Quantity:	100 µg
Target:	TIMP4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	TIMP4 Antibody
Immunogen:	Immunogen: Anti-TIMP4 (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with full length human TIMP4 protein followed by hybridoma development. Immunogen Type: Recombinant Protein
Clone:	9:4-7
Isotype:	IgG2b kappa
Cross-Reactivity (Details):	TIMP4 antibody is specific for human TIMP4 protein.
Characteristics:	Synonyms: mouse anti-TIMP4 antibody, Tissue inhibitor of metalloproteinase-4, Metalloproteinase inhibitor 4, TIMP-4, TIMP 4, TIMP4 antibody, anti-TIMP-4 antibody
Purification:	Anti-TIMP4 was purified from clarified mouse ascetic fluid by Protein A chromatography followed by extensive dialysis against the buffer stated above.
Sterility:	Sterile filtered

Target Details

Target:	TIMP4
Alternative Name:	TIMP4 (TIMP4 Products)
Background:	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.
Gene ID:	7079
NCBI Accession:	NM_003256
UniProt:	Q99727

Application Details

Application Notes:	Immunohistochemistry Dilution: 5-10 µg/mL Application 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. Western Blot Dilution: 1:2,000 to 1:10,000 ELISA Dilution: 1:20,000 to 1:100,000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

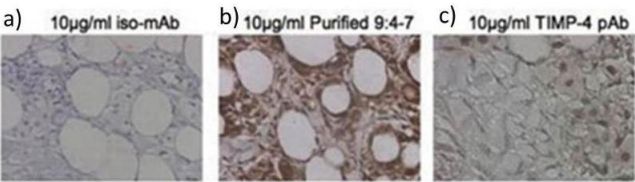
Handling

	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Publications

Product cited in:	Donover, Wojciechowski, Thirumaran, Zemba-Palko, Prendergast, Wallon: "Development of a monoclonal antibody that specifically detects tissue inhibitor of metalloproteinase-4 (TIMP-4) in formalin-fixed, paraffin-embedded human tissues." in: Journal of cellular biochemistry , Vol. 110, Issue 5, pp. 1255-61, (2010) (PubMed).
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Images



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.