Datasheet for ABIN3044332

anti-TIMP2 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	TIMP2
Binding Specificity:	AA 205-220, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TIMP2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	Anti-Metalloproteinase inhibitor 2 TIMP2 Antibody
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human TIMP2, identical to the related mouse and rat sequences.
Sequence:	RGAAPPKQEF LDIEDP
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Metalloproteinase inhibitor 2 TIMP2 Antibody (ABIN3044332). Tested in ELISA, IHC applications. This antibody reacts with Human, Mouse, Rat.
Purification:	Immunogen affinity purified.

Target Details

Target:	TIMP2
Alternative Name:	TIMP2 (TIMP2 Products)
Background:	Synonyms: Metalloproteinase inhibitor 2,CSC-21K,Tissue inhibitor of metalloproteinases 2,TIMP-2,TIMP2, Background: TIMP metallopeptidase inhibitor 2, a tissue inhibitor of metalloproteinases, also known as TIMP2, is a human gene, thought to be a metastasis suppressor. This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to ly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. Sequence Similarities: Belongs to the protease inhibitor I35 (TIMP) family.
Molecular Weight:	91 kDa
UniProt:	P16035
Pathways:	cAMP Metabolic Process

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 1. "Entrez Gene: TIMP2 TIMP metallopeptidase inhibitor 2". 2. Bourboulia D, Stetler-Stevenson WG (Jun 2010). "Matrix metalloproteinases (MMPs) and tissue inhibitors of metalloproteinases (TIMPs): Positive and negative regulators in tumor cell adhesion". Seminars in Cancer Biology 20 (3): 161-8. 3. Hoek KS, Schlegel NC, Eichhoff OM, Widmer DS, Praetorius C, Einarsson SO, Valgeirsdottir S, Bergsteinsdottir K, Schepsky A, Dummer R, Steingrimsson E (2008). "Novel MITF targets identified using a two-step DNA microarray strategy". Pigment Cell Melanoma Res. 21 (6): 665-76.
Comment:	Antibody can be supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in:

Tang, Pei, Yang, Wang, Wang, Gao, Li, Yang, Yang: "The inhibition of calpains ameliorates vascular restenosis through MMP2/TGF-β1 pathway." in: **Scientific reports**, Vol. 6, pp. 29975, (2018) (PubMed).

Liu, Li, Liang, Li, Jiang, Chu, Yang: "Hydrogen sulfide attenuates myocardial fibrosis in diabetic rats through the JAK/STAT signaling pathway." in: **International journal of molecular medicine**, Vol. 41, Issue 4, pp. 1867-1876, (2018) (PubMed).

Zeng, Li, Li, Li, Xiao, Chu, Yang: "Effect of Novel Gasotransmitter hydrogen sulfide on renal fibrosis and connexins expression in diabetic rats." in: **Bioengineered**, Vol. 7, Issue 5, pp. 314-320, (2017) (PubMed).

et al.: "Erratum: Long-term intravenous administration of carboxylated single-walled carbon nanotubes induces persistent accumulation in the lungs and pulmonary fibrosis via the nuclear factor-kappa B pathway ..." in: **International journal of nanomedicine**, Vol. 12, pp. 1515, (2017) (PubMed).

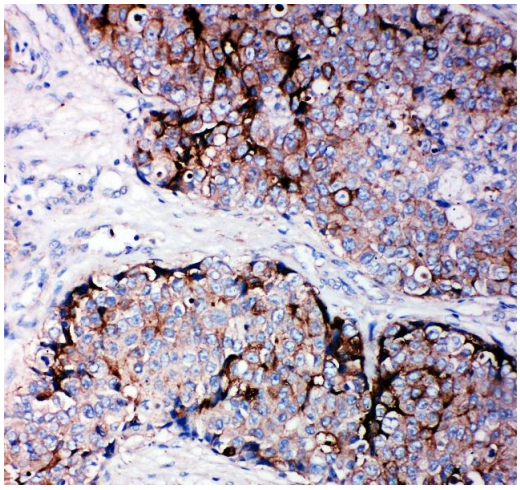
Fan, Jiang, Li, Fang, Xu, Zheng: "MMP-1/2 and TIMP-1/2 expression levels, and the levels of

Publications

collagenous and elastic fibers correlate with disease progression in a hamster model of tongue cancer." in: **Oncology letters**, Vol. 11, Issue 1, pp. 63-68, (2016) (PubMed).

There are more publications referencing this product on: Product page

Images



Immunohistochemistry

Image 1. Anti-TIMP2 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue