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
Host:	Rabbit
Clonality:	Polyclonal
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Metalloproteinase inhibitor 2(TIMP2) detection. Tested with IHC-P, ELISA in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human TIMP2(205-220aa RGAAPPKQEFLDIEDP), identical to the related mouse and rat sequences.
Sequence:	RGAAPPKQEF LDIEDP
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse, rat No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Metalloproteinase inhibitor 2(TIMP2) detection. Tested with IHC-P, ELISA in Human,Mouse,Rat.

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Product Details

	Gene Name: TIMP metallopeptidase inhibitor 2 Protein Name: Metalloproteinase inhibitor 2
Purification:	Immunogen affinity purified.

Target Details

Target:	TIMP2
Alternative Name:	TIMP2 (TIMP2 Products)
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 directly 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. Synonyms: CSC 21K antibody|CSC-21K antibody|CSC21K antibody|Metalloproteinase inhibitor 2 antibody|Metalloproteinase inhibitor 2 precursor antibody|TIMP 2 antibody|TIMP metallopeptidase inhibitor 2 antibody|TIMP-2 antibody|TIMP2 antibody|TIMP2_HUMAN antibody|Tissue Inhibitor of Metalloproteinase 2 antibody|Tissue inhibitor of metalloproteinases 2 antibody
UniProt:	P16035
Pathways:	cAMP Metabolic Process

Application Details

Application Notes:	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Human Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.

Application Details

	Optimal dilutions should be determined by end users.
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 Sodium azide and Thimerosal (Merthiolate): 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:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

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).

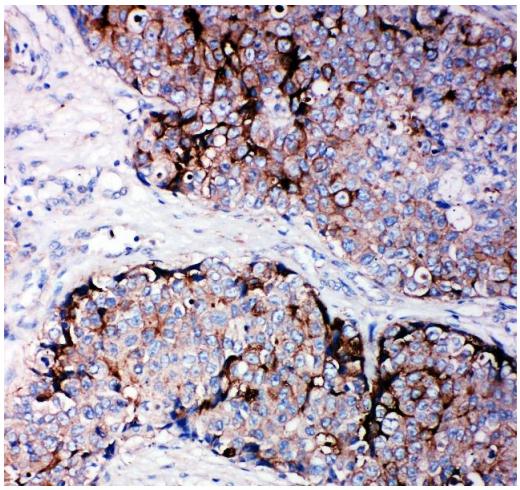
Publications

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 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

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