



Datasheet for ABIN3043405
anti-MMP1 antibody (Middle Region)



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1 Image

13 Publications

Overview

Quantity:	100 µg
Target:	MMP1
Binding Specificity:	AA 194-231, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Interstitial collagenase(MMP1) detection. Tested with WB in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human MMP1 (194-231aa DAHFDEDERWTNNFREYNLHRVAAHELGHSLGLSHSTD).
Sequence:	DAHFDEDERW TNNFREYNLH RAAHELGHSLGLSHSTD
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Interstitial collagenase(MMP1) detection. Tested with WB in Human. Gene Name: matrix metalloproteinase 1 Protein Name: Interstitial collagenase

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: MMP1

Alternative Name: MMP1 ([MMP1 Products](#))

Background: Matrix metalloproteinase-1 (MMP-1), also known as interstitial collagenase and fibroblast collagenase, is an enzyme that in humans is encoded by the MMP1 gene. MMP-1 was the first vertebrate collagenase both purified to homogeneity as a protein, and cloned as a cDNA. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. It is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.

Synonyms: 27 kDa interstitial collagenase antibody|CLG antibody|CLGN antibody|collagenase, fibroblast antibody|collagenase, interstitial antibody|Fibroblast collagenase antibody|Interstitial collagenase antibody|Matrix metalloproteinase 1 (interstitial collagenase) antibody|Matrix metalloproteinase 1 antibody|Matrix Metalloproteinase 1 antibody|Matrix metalloproteinase-1 antibody|MMP 1 antibody|MMP-1 antibody|MMP1 antibody|MMP1_HUMAN antibody|OTTHUMP00000045866 antibody

Gene ID: 4312

UniProt: [P03956](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
Notes: Tested Species: Species with positive results.
Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

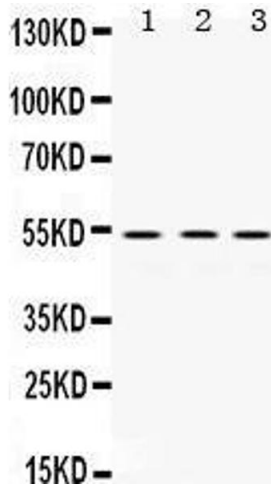
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE 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:	<p>Wendan, Changzhu, Xuhong, Hongjing, Hong, Dongxia, Fang: "BMSCs Interactions with Adventitial Fibroblasts Display Smooth Muscle Cell Lineage Potential in Differentiation and Migration That Contributes to Neointimal Formation." in: Stem cells international, Vol. 2016, pp. 3196071, (2016) (PubMed).</p> <p>Zhang, Teng, Liu, Zhang, Liu: "Gene expression profile analyze the molecular mechanism of CXCR7 regulating papillary thyroid carcinoma growth and metastasis." in: Journal of experimental & clinical cancer research : CR, Vol. 34, pp. 16, (2015) (PubMed).</p> <p>Deng, Ling, Liu, Zhao, Lv: "Decreased expression of matrix metalloproteinase-1 in the maternal umbilical serum, trophoblasts and decidua leads to preeclampsia." in: Experimental and therapeutic medicine, Vol. 9, Issue 3, pp. 992-998, (2015) (PubMed).</p> <p>Fan, Chen, Ni, Wang, Sun, Chen, Zheng: "Expression of MMP-1/PAR-1 and patterns of invasion in oral squamous cell carcinoma as potential prognostic markers." in: Oncotargets and therapy, Vol. 8, pp. 1619-26, (2015) (PubMed).</p> <p>Xu, Zhang, Xu, Guo, Wang, Wu, Wang, Luo, Zhou: "Antiphotaging effect of conditioned medium of dedifferentiated adipocytes on skin in vivo and in vitro: a mechanistic study." in: Stem cells</p>
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and development, Vol. 24, Issue 9, pp. 1096-111, (2015) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1.