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Datasheet for ABIN668286 anti-MMP2 antibody (AA 31-109)

6 Images

17 Publications



Overview

Quantity:	100 µL
Target:	MMP2
Binding Specificity:	AA 31-109
Reactivity:	Human, Rat, Mouse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	MAT conjugated synthetic peptide derived from human MMP2
Isotype:	lgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Cow,Sheep,Pig,Chicken
Purification:	Purified by Protein A.
Target Details	
Target:	MMP2

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Target Details	
Alternative Name:	MMP2 (MMP2 Products)
Background:	Synonyms: CLG4, MONA, CLG4A, MMP-2, TBE-1, MMP-II, 72 kDa type IV collagenase, 72 kDa
	gelatinase, Gelatinase A, Matrix metalloproteinase-2, MMP2
	Background: Ubiquitinous metalloproteinase that is involved in diverse functions such as
	remodeling of the vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, and
	atherosclerotic plaque rupture. As well as degrading extracellular matrix proteins, can also act
	on several nonmatrix proteins such as big endothelial 1 and beta-type CGRP promoting
	vasoconstriction. Also cleaves KISS at a Gly- -Leu bond. Appears to have a role in myocardial
	cell death pathways. Contributes to myocardial oxidative stress by regulating the activity of
	GSK3beta. Cleaves GSK3beta in vitro. Involved in the formation of the fibrovascular tissues in
	association with MMP14. PEX, the C-terminal non-catalytic fragment of MMP2, posseses anti-
	angiogenic and anti-tumor properties and inhibits cell migration and cell adhesion to FGF2 and
	vitronectin. Ligand for integrinv/beta3 on the surface of blood vessels. Isoform 2: Mediates the
	proteolysis of CHUK/IKKA and initiates a primary innate immune response by inducing
	mitochondrial-nuclear stress signaling with activation of the pro-inflammatory NF-kappaB,
	NFAT and IRF transcriptional pathways.
Gene ID:	4313
UniProt:	P08253
Pathways:	Activation of Innate immune Response
Application Details	
Application Notes:	WB 1:300-5000

	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Zhang, Li, Song, Xiong, Liu, Bai: "Hydroxysafflor yellow A suppresses angiogenesis of
	hepatocellular carcinoma through inhibition of p38 MAPK phosphorylation." in: Biomedicine &
	pharmacotherapy , Vol. 109, pp. 806-814, (2019) (PubMed).

Gao, Li, Liu, Wang, Zhang, Li, Bu: "Effect of Telmisartan on Preventing Learning and Memory Deficits Via Peroxisome Proliferator-Activated Receptor-γ in Vascular Dementia Spontaneously Hypertensive Rats." in: **Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association**, Vol. 27, Issue 2, pp. 277-285, (2018) (PubMed).

Wang, Chen, Ke, Li: "Ghrelin inhibits atherosclerotic plaque angiogenesis and promotes plaque stability in a rabbit atherosclerotic model." in: **Peptides**, Vol. 90, pp. 17-26, (2017) (PubMed).

Varghese, Joseph, S R, B S, Sreelekha: "The inhibitory effect of anti- tumor polysaccharide from Punica granatum on metastasis." in: **International journal of biological macromolecules**, Vol. 103, pp. 1000-1010, (2017) (PubMed).

Vendrov, Stevenson, Alahari, Pan, Wickline, Madamanchi, Runge: "Attenuated Superoxide Dismutase 2 Activity Induces Atherosclerotic Plaque Instability During Aging in Hyperlipidemic Mice." in: **Journal of the American Heart Association**, Vol. 6, Issue 11, (2017) (PubMed).

There are more publications referencing this product on: Product page





Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded rat brain, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30min, Antibody incubation with MMP2 Polyclonal Antibody, Unconjugated at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded rat carotid artery Anti-MMP-2 Polyclonal Antibody , Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Paraformaldehyde-fixed, paraffin embedded Mouse lung, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30min, Antibody incubation with MMP2 Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.

Please check the product details page for more images. Overall 6 images are available for ABIN668286.

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