

Datasheet for ABIN390138
anti-MMP14 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	MMP14
Binding Specificity:	AA 145-174, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP14 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This MMP14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 145-174 amino acids from the N-terminal region of human MMP14.
Clone:	RB02027
Isotype:	Ig Fraction
Predicted Reactivity:	B, Pig
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MMP14
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Target Details

Alternative Name:	MMP14 (MMP14 Products)
Background:	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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP14 seems to specifically activate progelatinase A, and may thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. Expression is significant in stromal cells of colon, breast, and head and neck.
Molecular Weight:	65894
Gene ID:	4323
NCBI Accession:	NP_004986
UniProt:	P50281
Pathways:	Autophagy

Application Details

Application Notes:	WB: 1:2000. WB: 1:2000. IHC-P: 1:25. FC: 1:10~50
Restrictions:	For Research Use only

Handling

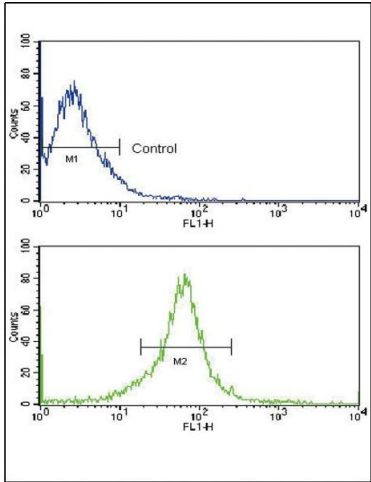
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in: Du, Wang, Tan, Li, Huang, Huang, Yang, Zhang, Wang, Huang, Huang: "Nkx2-5 Is Expressed in Atherosclerotic Plaques and Attenuates Development of Atherosclerosis in Apolipoprotein E-Deficient Mice." in: **Journal of the American Heart Association**, Vol. 5, Issue 12, (2017) ([PubMed](#)).

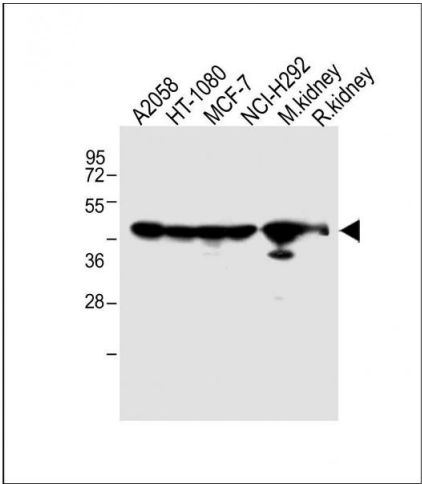
Zhu, Hong, Tripathi, Sehdev, Belkhiri, El-Rifai: "Regulation of CXCR4-mediated invasion by DARPP-32 in gastric cancer cells." in: **Molecular cancer research : MCR**, Vol. 11, Issue 1, pp. 86-94, (2013) ([PubMed](#)).

Images



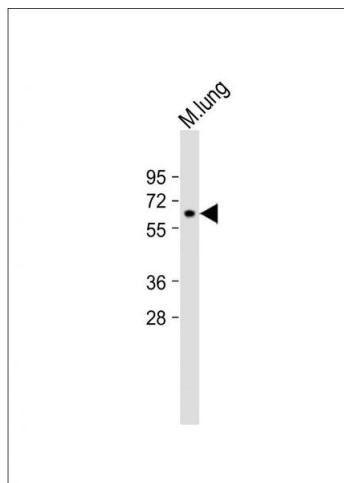
Flow Cytometry

Image 1. Flow cytometric analysis of MCF-7 cells using P14 Antibody (N-term) (bottom histogram) compared to a negative control (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. All lanes : Anti-P14 Antibody (N-term) at 1:2000 dilution Lane 1: whole cell lysate Lane 2: HT-1080 whole cell lysate Lane 3: MCF-7 whole cell lysate Lane 4: NCI- whole cell lysate Lane 5: Mouse kidney lysate Lane 5: Rat kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 66 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. Anti-P14 Antibody (N-term) at 1:2000 dilution + Mouse lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 66 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN390138.