ARG54980
anti-MMP9 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes MMP9
Tested Reactivity	Hu, Ms
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	331CT17.4.4
Isotype	IgM
Target Name	MMP9
Immunogen	Purified His-tagged MMP9 protein fragment.
Conjugation	Un-conjugated
Alternate Names	Matrix metalloproteinase-9; 92 kDa gelatinase; MMP-9; Gelatinase B; GELB; CLG4B; MANDP2; EC 3.4.24.35; 92 kDa type IV collagenase

Application Instructions

Application table

Application	Dilution
WB	1:500 - 1:8000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Buffer	Crude Ascites and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

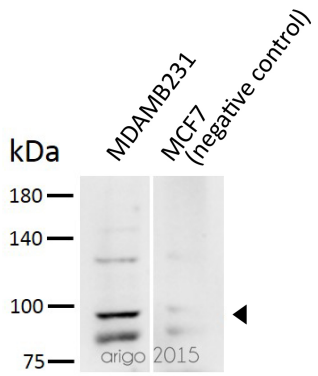
Database links

GeneID: 17395 Mouse

GeneID: 4318 Human

	Swiss-port # P14780 Human
	Swiss-port # P41245 Mouse
Gene Symbol	MMP9
Gene Full Name	matrix metallopeptidase 9
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 MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008]
Function	May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly-|-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Degrades fibronectin but not laminin or Pz-peptide. [UniProt]
Highlight	Related products: MMP9 antibodies; MMP9 ELISA Kits; MMP9 Duos / Panels; Anti-Mouse IgM secondary antibodies; Related news: Rat MMP9 ELISA Kit is available in arigo
Research Area	Brain Injury IHC Study antibody
Calculated Mw	78 kDa
PTM	Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing by MMP3 yields the 82 kDa matrix metalloproteinase-9. N- and O-glycosylated.
Cellular Localization	Secreted, extracellular space, extracellular matrix

Images



ARG54980 anti-MMP9 antibody WB image

Western blot: 30 µg of MDAMB231 and MCF7 (negative control) cell lysates stained with ARG54980 anti-MMP9 antibody at 1:500 dilution.

ARG54980 anti-MMP9 antibody WB image

Western blot: Gastric cancer cells stained with ARG54980 anti-MMP9 antibody.

From Limin Zhang et al. Heliyon (2024), doi: 10.1016/j.heliyon.2024.e30803, Fig. 5. C.