

ARG55535 anti-MMP9 antibody [S51-82]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [S51-82] recognizes MMP9
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	S51-82
Isotype	IgG2a
Target Name	MMP9
Species	Rat
Immunogen	Fusion protein (full-length) of Rat MMP9 (NP_112317.1).
Conjugation	Un-conjugated
Alternate Names	Matrix metalloproteinase-9; MMP-9; Gelatinase B; GELB; 92 kDa gelatinase; EC 3.4.24.35; 92 kDa type IV collagenase

Application Instructions

Application table	Application	Dilution
	IHC-P	1 - 5 µg/ml
	WB	1 - 2 µg/ml

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

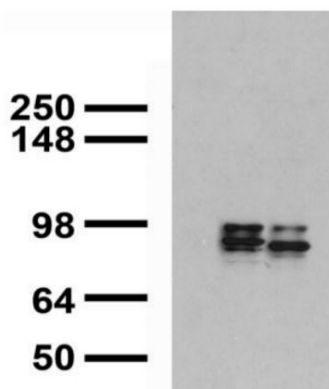
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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. 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

Gene Symbol	Mmp9
Gene Full Name	matrix metalloproteinase 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	Could play a role in bone osteoclastic resorption. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments (By similarity). [UniProt]
Highlight	Related products: MMP9 antibodies ; MMP9 ELISA Kits ; MMP9 Duos / Panels ; Anti-Mouse IgG 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.

Images



ARG55535 anti-MMP9 antibody [S51-82] WB image

Western blot: Adult rat brain stained with ARG55535 anti-MMP9 antibody [S51-82] (Two Lanes). Bands of ~92 and 82 kDa (proenzyme and active enzyme) are detected.