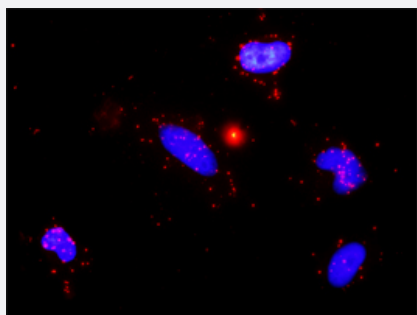


MMP9 monoclonal antibody (M03), clone 2H4

Catalog # H00004318-M03

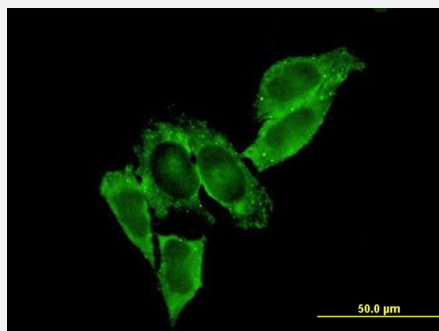
Size 100 ug

Applications



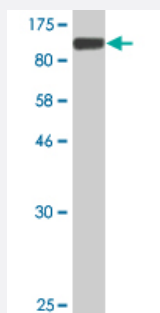
In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between TGFB1 and MMP9. HeLa cells were stained with anti-TGFB1 rabbit purified polyclonal 1:1200 and anti-MMP9 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Immunofluorescence

Immunofluorescence of monoclonal antibody to MMP9 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (103.4 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full-length recombinant MMP9.

Immunogen	MMP9 (AAH06093.1, 1 a.a. ~ 707 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEEYLRYGYTRVAEMRGES KSLGPALLLLQKQLSLPETGELDSATLKAMRTPRCGVPDLGRFQTFEGDLKWHHHNITYWIQNY EDLPRAVIDDAFARAFALWSAVTPLTFTRVYSRDADVIQFGVAEHGDBGYFDGKDGLLAHAFPP GPGIQGDAHFDDELWSLGKGVVVPTRFGNADGAACHFPFIFEGRSYSACTTDGRSDGLPWCS TTANYDTDDRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYSACTTDGRSDGYRWCATTANYD RDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCATTSNFSDSKK WGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPE PEPRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVD DACNVNIFDAIAEIGNQLYLFKDGKYWRFSEGRGSRPQGPFLIADKWPALPRKLDVFEEPLSKKL FFFSGRQVWVYTGASVLGPRRLDKLGLGADVAQVTGALRSRGKMLLFSGRRLWRFDVKAQM VDPRSASEVDRMFPGVPLDTHDVFQYREKAYFCQDRFYWRVSSRSELNQVDQVGYVTDILQC PED
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (72)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (103.4 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between TGFB1 and MMP9. HeLa cells were stained with anti-TGFB1 rabbit purified polyclonal 1:1200 and anti-MMP9 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- Immunofluorescence

Immunofluorescence of monoclonal antibody to MMP9 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — MMP9

Entrez GeneID [4318](#)

GeneBank Accession# [BC006093](#)

Protein Accession# [AAH06093.1](#)

Gene Name MMP9

Gene Alias CLG4B, GELB, MMP-9

Gene Description matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)

Omim ID [120361](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations 92kD type IV collagenase|OTTHUMP00000031674|gelatinase B|macrophage gelatinase|matrix metalloproteinase 9|matrix metalloproteinase 9 (gelatinase B, 92kD gelatinase, 92kD type IV collagenase)|matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kD

Publication Reference

- [Lung resided monocytic myeloid-derived suppressor cells contribute to premetastatic niche formation by enhancing MMP-9 expression.](#)

Zhang J, Han X, Shi H, Gao Y, Qiao X, Li H, Wei M, Zeng X.

Molecular and Cellular Probes 2020 Apr; 50:101498.

Application: IHC, WB-Ti, Mouse, Mouse lungs

- [Intracellular Wnt/Beta-Catenin Signaling Underlying 17beta-Estradiol-Induced Matrix Metalloproteinase 9 Expression in Human Endometriosis.](#)

Zhang L, Xiong W, Xiong Y, Liu H, Li N, Du Y, Liu Y.

Biology of Reproduction 2016 Feb; 94(3):70.

Application: IF, Human, Endometrial stromal cell

Pathway

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- [Leukocyte transendothelial migration](#)
- [Pathways in cancer](#)

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- [Ventricular Outflow Obstruction](#)
- [Vertebral Artery Dissection](#)