

Rabbit MMP24 Polyclonal Antibody | anti-MMP24 antibody

MMP24 Antibody (Center)

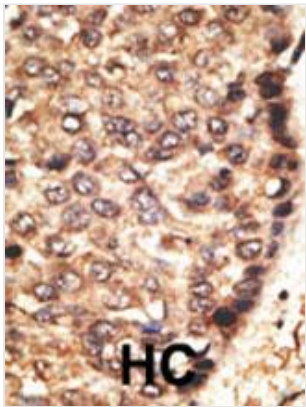
CATALOG # AAA28661	HOST Rabbit	REACTIVITY HumanPredicted: Mouse, Rat	APPLICATIONS Western Blot, ELISA, Immunohistochemistry
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PRODUCT SYNONYMS

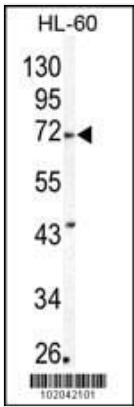
MMP24; Polyclonal Antibody; MMP24 Antibody (Center); Matrix metalloproteinase-24; MMP-24; 3424-; Membrane-type matrix metalloproteinase 5; MT-MMP 5; MTMMP5; Membrane-type-5 matrix metalloproteinase; MT5-MMP; MT5MMP; Processed matrix metalloproteinase-24; anti-MMP24 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted: Mouse, Rat
Clonality	Polyclonal
Isotype	Ig
Specificity	This MMP24 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 396-425 amino acids from the Central region of human MMP24.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	396-425
Sequence Length	645
Applicable Applications for anti-MMP24 antibody	WB (Western Blot), ELISA, IHC (Immunohistochemistry)
Application Notes	WB~~1:1000 IHC-P~~1:50~100
Function	Metalloprotease that mediates cleavage of N-cadherin (CDH2) and acts as a regulator of neuro-immune interactions and neural stem cell quiescence. Involved in cell-cell interactions between nociceptive neurites and mast cells, possibly by mediating cleavage of CDH2, thereby acting as a mediator of peripheral thermal nociception and inflammatory hyperalgesia. Key regulator of neural stem cells quiescence by mediating cleavage of CDH2, affecting CDH2-mediated anchorage of neural stem cells to ependymocytes in the adult subependymal zone, leading to modulate their quiescence. May play a role in axonal growth. Able to activate progelatinase A. May also be a proteoglycanase involved in degradation of proteoglycans, such as dermatan sulfate and chondroitin sulfate proteoglycans. Cleaves partially fibronectin, but not collagen type I, nor laminin (By similarity).
Cellular Location	Matrix metalloproteinase-24: Cell membrane; Single-pass type I membrane protein Golgi apparatus, trans-Golgi network membrane; Single-pass type I membrane protein. Note=Recycled back to the plasma membrane through the trans-Golgi network via interaction with APBA3.
Tissue Location	Predominantly expressed in brain, kidney,pancreas and lung. Overexpressed in a seriesof brain tumors, including astrocytomas and glioblastomas
Calculated MW	73231
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
Western blot analysis of MMP24 Antibody (Center) in HL60 cell line lysates (35ug/lane). MMP24 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-MMP24 antibody	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. However, MMP24 is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 by cleavage. The gene has previously been referred to as MMP25 but has been renamed matrix metalloproteinase 24 (MMP24).
Product Categories/Family for anti-MMP24 antibody	Cancer; Cell Biology; Neuroscience; Signal Transduction
References	Jung, M., et al., Prostate 55(2):89-98 (2003). Kajita, M., et al., FEBS Lett. 457(3):353-356 (1999). Llano, E., et al., Cancer Res. 59(11):2570-2576 (1999). Nagase, H., et al., J. Biol. Chem. 274(31):21491-21494 (1999). Kinoh, H., et al., Cytogenet. Cell Genet. 87 (1-2), 97-98 (1999).

NCBI AND UNIPROT INFORMATION

NCBI GI #	5729929
NCBI GeneID	10893
NCBI Accession #	NP_006681.1
NCBI GenBank Nucleotide #	NM_006690.3
UniProt Accession #	Q9Y5R2; Q9H440; B7ZBG8
NCBI Official Full Name	matrix metalloproteinase-24 preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 24 (membrane-inserted)
NCBI Official Symbol	MMP24
NCBI Official Synonym Symbols	MMP25; MMP-24; MT5MMP; MTMMP5; MT-MMP5; MT5-MMP; MT-MMP 5
NCBI Protein Information	matrix metalloproteinase-24
UniProt Protein Name	Matrix metalloproteinase-24
UniProt Gene Name	MMP24

UniProt Synonym Gene Names	MT5MMP; MMP-24; MT-MMP 5; MTMMP5; MT5-MMP; MT5MMP
UniProt Entry Name	MMP24_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mmp24-antibody-western-blot-immunohistochemistry-elisa/28661>