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# MMP24 Rabbit pAb

Catalog # AP98909

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF, E |
| **Primary Accession** | Q9Y5R2 |
| **Other Accession** | Q9Y5R2 |
| **Predicted** | Rat, Human, Mouse, Rabbit, Dog, Horse, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 73231 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human MMP24 |
| **Epitope Specificity** | 151-250/645 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains. |
| **Post-translational modifications** | The precursor is cleaved by a furin endopeptidase. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | 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. However, the protein encoded by this gene 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 MMP24. [provided by RefSeq, Jul 2008] |

## Additional Information

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| **Gene ID** | 10893 |
| **Other Names** | MMP-24; MMP25; MT-MMP 5; MT-MMP5; MT5-MMP; MT5MMP; MTMMP5; MMP24_HUMAN; MMP24; Membrane-type matrix metalloproteinase 5 (MT-MMP 5 \| MTMMP5); Membrane-type-5 matrix metalloproteinase (MT5-MMP \| MT5MMP); 3.4.24.-; MMP24_RAT; matrix metallopeptidase 24; matrix metalloproteinase 24 (membrane-inserted); matrix metallopeptidase 24 (membrane-inserted); membrane-type 5 matrix metalloproteinase |
| **Dilution** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |

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| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | MMP24 |
| **Synonyms** | MT5MMP |
| **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 series of brain tumors, including astrocytomas and glioblastomas. |

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