

**Rabbit Anti-MMP-14
[MT1-MMP]
Polyclonal Antibody**

CATALOG NUMBER:	AB8221
LOT NUMBER:	
QUANTITY:	100 µg
CONCENTRATION:	1 mg/mL
SPECIFICITY:	AB822 recognizes a 60-66 kDa protein identified as MT1-MMP or MMP14. MMPs are a group of enzymes involved in matrix degradation. To date there are sixteen members reported to belong to the family of matrix metalloproteinases. Of these sixteen proteins ten exist in soluble form whereas MT-MMPs exist as integral membrane proteins. MT1-MMP, MT2-MMP, MT3-MMP also known as MMP14, MMP15, MMP16 respectively contain a C-terminal transmembrane domain anchoring them to the cell surface. They have an 8 amino acid insert in their catalytic domain. MT1-MMP cleaves progelatinase A (MMP-2) and progelatinase B to their active forms. MT1-MMP gets activated through the membrane plasmin cascade. It binds to TIMP-2 first and then to MMP-2 forming a trimer. It cleaves the pro-MMP-2 to its active form.
CELLULAR LOCALIZATION:	Cell Membrane and cytoplasmic.
IMMUNOGEN:	A synthetic peptide from the human MMP-14/MT1-MMP
APPLICATIONS:	Western Blotting: 5-10µg/mL for 2 hrs at RT The optimal dilution for a specific application under a given set of experimental conditions should be determined by the investigator.
POSITIVE CONTROL:	HFL-1 Cells, Placenta
SPECIES REACTIVITIES:	Human, Mouse. Others not tested.
FORMAT:	Purified from rabbit anti-serum by Protein A chromatography.
PRESENTATION:	Prepared at 1mg/ml in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.
STORAGE/HANDLING:	When stored at 2-8°C, this antibody is stable for 12 months.
REFERENCES:	1.Sato H. Takino T, Okada Y. Cao J, Shinagawa A. Yamamoto E, Seiki M. (1994) A matrix metalloproteinase expressed on the surface of invasive tumor cells. <i>Nature</i> 370: 61-65 2.Okada A. Bellocq JP, Rouyer N. Chenard MP, Rio M C, Chambon P, Basset P. (1995) cDNA sequence and mRNA tissue distribution of a novel human matrix metalloproteinase with a potential trans membrane segment. <i>Eur. J. Biochem</i> 231: 602-608. 3.Sato H. Hinoshita T, Takino T, Nakayama K, Seiki M. (1996) Activation of a recombinant membrane type 1-matrix metalloproteinase (MT1-MMP) by furin and its interaction with tissue inhibitor of metalloproteinases (TIMP-2) <i>FEBS Lett.</i> 393: 101-104

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