



## MOUSE ANTI-HUMAN MT1-MMP catalytic domain MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB1767	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
CLONE NAME:	3G4.2	HOST/ISOTYPE:	Ms IgG2b <sub>Kappa</sub>
ALTERNATE NAMES:	MMP-14	EPITOPE:	catalytic domain

**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. However, MMP-14 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. MT1-MMP is capable of mediating pericellular proteolysis of extracellular matrix components and is therefore thought to be an important molecular tool for cellular remodeling of the surrounding matrix. This protein also activates MMP2 protein, and this activity may be involved in tumor invasion.

**SPECIFICITY:** Clone 3G4.1 recognizes the catalytic domain of MT1-MMP, identifying the active form of the protein. MW is approximately 60 kDa.

**APPLICATIONS:** Western blot: 1:1000 – 1:2000  
Immunohistochemistry  
Immunocytochemistry  
*Optimal working dilutions must be determined by the end user.*

**SPECIES REACTIVITY:** Reacts with Human. Reactivity with other species has not been determined.

**IMMUNOGEN:** Recombinant protein containing the catalytic domain of human MT1-MMP.

**PRESENTATION:** Protein A purified immunoglobulin liquid in PBS, pH 7.2, containing 0.1% sodium azide.

**STORAGE/HANDLING:** Maintain at 2°-8° C for up to 12 months from date of receipt.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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