



## MOUSE ANTI-MMP-14 [MT1-MMP] MONOCLONAL ANTIBODY

<b>CATALOG NUMBER:</b>	MAB3328	<b>QUANTITY:</b>	100 ug
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	1 mg/mL
<b>CLONE NAME:</b>	LEM-2/15.8	<b>HOST/ISOTYPE:</b>	Ms IgG <sub>1</sub> Kappa
<b>ALTERNATE NAMES:</b>	MT1-MMP	<b>EPITOPE:</b>	catalytic domain
<b>BACKGROUND:</b>	MT1-MMP plays an important role during endothelial cell migration and matrix remodeling. Although the role of MT1-MMP in endothelial cell motility is not fully characterized, its activity appears to modulate endothelial migration, invasion, and formation of capillary tubes during the angiogenic response (Galvez, 2001). Mt1-MMP also appears to play a key role in monocyte revruitment during inflammation (Salomon, 2005).		
<b>SPECIFICITY:</b>	LEM-2/15.8 reacts with human MT1-MMP and displays crossreactivity with mouse specimens. This antibody was generated against the catalytic domain of MT1-MMP and is able to inhibit enzyme activity.		
<b>APPLICATIONS:</b>	<u>Western Blot</u> <u>Immunohistochemistry</u> : Frozen and paraffin-embedded tissues <u>Immunofluorescence</u> <u>Flow Cytometry</u> <u>Blocking</u> : 10-15µg/mL <i>Optimal working dilutions must be determined by the end user.</i>		
<b>SPECIES REACTIVITY:</b>	Human and mouse. Reactivity with other species has not been determined.		
<b>IMMUNOGEN:</b>	Synthetic peptide: amino acid sequence 218-233 within the catalytic domain		
<b>PRESENTATION:</b>	Purified immunoglobulin by Protein A chromatography . Liquid in 0.2M phosphate, 0.25M NaCl, pH 7.6, containing 0.1% sodium azide.		
<b>STORAGE/HANDLING:</b>	Maintain at 2° to 8°C for up to 12 months from date of receipt.		
<b>REFERENCES:</b>	<p>Matias-Roman S, Arroyo AG. <i>et al.</i> (2005). Membrane type 1-matrix metalloproteinase is involved in migration of human monocytes and is regulated through their interaction with fibronectin or endothelium. <i>Blood</i>. <b>105(10)</b>: 3956-64.</p> <p>Bartolome, RA. <i>et al.</i> (2004). Stromal cell-derived factor-1alpha promotes melanoma cell invasion cross basement membranes involving stimulation of membrane-type 1 matrix metalloproteinase and Rho GTPase activities. <i>Cancer Res</i>. <b>64(7)</b>: 2534-43.</p> <p>Galvez BG, Arroyo AG. <i>et al.</i> (2002). ECM regulates MT1-MMP localization with β1 or αVβ3 integrins at distinct cell compartments modulating its internalization and activity on human endothelial cells. <i>J Cell Biol</i>. <b>159(3)</b>: 509-521.</p>		



Galvez BG, Arroyo AG. *et al.* (2001). Membrane type 1-matrix metalloproteinase is activated during migration of human endothelial cells and modulates endothelial motility and matrix remodeling. *J Biol Chem.* **276**: 37491-37500.

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**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  $\mu$ L 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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