

**MOUSE ANTI-MMP-9  
MONOCLONAL ANTIBODY**

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<b>CATALOG NUMBER:</b>	MAB3309	<b>QUANTITY:</b>	100 µg
<b>LOT NUMBER:</b>	xxxxx	<b>CONCENTRATION:</b>	2 mg/mL
<b>ALTERNATE NAMES:</b>	Matrix metalloproteinase-9; Gelatinase B; 92 kDa Type IV Collagenase	<b>EPITOPE:</b>	Near C-terminus
<b>CLONE NAME:</b>	56-2A4	<b>HOST/ISOTYPE:</b>	Ms IgG1κ
<b>SPECIFICITY:</b>	Antibody MAB3309 is directed against the carboxy terminal domain of human MMP-9, residues 626-644. The antibody specifically reacts with the hMMP-9 and cross-reacts with guinea pig, rat and rabbit MMP-9, but not with the human MMP-1, 2, 3, or 13. The antibody does not react with mouse or bovine MMP-9. The antibody recognizes precursor (92 kDa) and active (83 kDa) forms of human and guinea pig MMP-9.		
<b>APPLICATIONS:</b>	<p><u>Immunoblotting</u>: 2-5 µg/mL. Recognizes a band corresponding to pro-MMP-9 at 92kDa and an intermediate form at 83 kDa when evaluated versus the conditioned medium of human fibrosarcoma (HT1080) cells.</p> <p><u>Immunohistochemistry</u> on frozen or paraffin-embedded tissue sections, PLP Fixation preferred (Nomura, 1996): 1-5 µg/mL. Will work in formalin fixed tissues (see protocols).</p> <p><i>Optimal working dilutions must be determined by end user.</i></p>		
<b>SPECIES REACTIVITY:</b>	Reacts with Human, Guinea Pig, Rat and Rabbit. Does not react with Mouse, Bovine and Hamster. Reactivity with other species has not been determined.		
<b>IMMUNOGEN:</b>	a peptide corresponding to amino acids 626-644 of human MMP-9 (RSASEVDRMFPGVPLDTHD).		
<b>FORMAT:</b>	Purified immunoglobulin.		
<b>PRESENTATION:</b>	Liquid in 0.1M Phosphate buffer, pH 7.0 containing 2% protease free bovine serum albumin.		
<b>STORAGE/HANDLING:</b>	Maintain frozen at -20°C in undiluted aliquots for up to 12 months.		
<b>REFERENCES:</b>	<p>Attiga, F. <i>et al.</i> (2000). Inhibitors of prostaglandin synthesis inhibit human prostate tumor cell invasiveness and reduce the release of matrix metalloproteinases. <i>Cancer Research</i> <b>60</b>:4629-4637.</p> <p>Iizasa, T. <i>et al.</i> (1999). Elevated Levels of Circulating Plasma Matrix Metalloproteinase 9 in Non-Small Cell Lung Cancer Patients. <i>Clinical Can. Res.</i> <b>5</b>:149-153.</p> <p>Romanic, A. <i>et al.</i> (1998). Matrix metalloproteinase expression increases after cerebral focal ischemia in rats. <i>Stroke</i> <b>29</b>:1020-1030.</p> <p>Nomura, H. <i>et al.</i> (1996). Enhanced production of matrix metalloproteinases and activation of matrix metalloproteinase 2 (gelatinase A) in human gastric carcinomas. <i>Int. J. Cancer</i> <b>69</b>:9-</p>		

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Nakagawa, T. *et al.* (1994). Production of matrix metalloproteinases and tissue inhibitor of metalloproteinases-1 by human brain tumors. *J. Neurosurg.* **81**:69-77.

Kawahara, E. *et al.* (1993). The expression of invasive behavior of differentiated squamous carcinoma cell line evaluated by an in vitro invasion model. *Jpn. J. Cancer Res.* **84**:409-418.

Fujimoto, N. *et al.* (1993). A one-step sandwich enzyme immunoassay for human matrix metalloproteinase 2 (72-kDa gelatinase/type IV collagenase) using monoclonal antibodies. *Clin. Chim. Acta.* **221**:91-103.

Related: Romanic, A.M. *et al.* (1998). Matrix Metallo proteinase Expression increases after cerebral focal ischemia in rats. *Stroke* **29**:1020-1030.

**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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