

## MOUSE ANTI-HUMAN-MMP-8 MONOCLONAL ANTIBODY

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<b>CATALOG NUMBER:</b>	<b>MAB3316</b>	<b>QUANTITY:</b>	100 µg
<b>LOT NUMBER:</b>	xxxxxx	<b>CONCENTRATION:</b>	2 mg/mL
<b>ALTERNATE NAMES:</b>	Matrix Metalloproteinase 8; Neutrophil Collagenase	<b>EPITOPE:</b>	Not Mapped
<b>CLONE NAME:</b>	115-13D2	<b>HOST/ISOTYPE:</b>	Ms IgG1κ
<b>SPECIFICITY:</b>	This is a purified mouse monoclonal antibody to human matrix metalloproteinase 8 (human MMP-8, neutrophil collagenase) from neutrophil. The antibody specifically reacts with latent (~85 kDa, reduced) and active (~67 kDa) forms of human MMP-8 by western blot. Does not cross-react with human MMP-1, 2, 3, 7, 9 and 13. It has been reported that this clone reacts with mouse MMP-8 (Balbin, 1998).		
<b>APPLICATIONS:</b>	Western blotting: 5-10 µg/mL: recognizes both latent (~85kDa reduced) and active (~67kDa) forms of human MMP-8. Immunohistochemistry: 10 µg/mL PLP fixed, paraffin-embedded tissue sections. Heat induced epitope retrieval in citrate buffer, pH 6.0, is recommended. Also reacts with acetone or fresh frozen sections. Formalin fixation can be problematic and is not recommended.  <i>Optimal working dilutions must be determined by end user.</i>		
<b>SPECIES REACTIVITY:</b>	Reacts with Human. Reactivity with other species has not been determined.		
<b>IMMUNOGEN:</b>	MMP-8 purified from human neutrophils.		
<b>CONTROL:</b>	Positive control cell line: PMNL cells		
<b>PRESENTATION:</b>	Purified immunoglobulin presented as a liquid in 0.1 M sodium 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.  Manufactured by Daiichi Fine Chemical Co., Ltd. Not available for sale in Japan.		
<b>REFERENCES:</b>	Matsuki, H. <i>et al.</i> (1996). A one-step sandwich enzyme immunoassay for human matrix metalloproteinase 8 (neutrophil collagenase) using monoclonal antibodies. <i>Clin. Chim. Acta.</i> <b>244</b> :129-143.  Kanuper, V. <i>et al.</i> (1996). Biochemical characterization of human collagenase-3. <i>J. Biol.</i>		

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*Chem. 271:1544-1550.*

Zhang, J. *et al.* (1993). A one-step sandwich enzyme immunoassay for human matrix metalloproteinase 1 (interstitial collagenase) using monoclonal antibodies. *Clin. Chim. Acta. 219:1-14.*

Okada, Y. *et al.* (1990). Immunohistochemical demonstration of collagenase and tissue inhibitor of metalloproteinases (TIMP) in synovial lining cells of rheumatoid synovium. *Virchows Archiv. B Cell Pathol Incl Mol Pathol 59:305-312.*

Balbin, M *et al.* (1998). Collagenase 2 (MMP-8) Expression in Murine Tissue-remodeling Processes Analysis Of Its Potential Role In Postpartum Involution Of The Uterus. *J Biol Chem 273(37):23959-23968.*

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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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