

#4022 Store at -20C

MMP-2 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 64, 72	Source: Rabbit	UniProt ID: #P08253	Entrez-Gene Id: 4313
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	MMP-2 Antibody detects full length (proenzyme, 72 kDa) and cleaved (active enzyme, 64 kDa) MMP-2.	
Species predicted to react based on 100% sequence homology:	Mouse, Rat	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys116 of human MMP-2. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The matrix metalloproteinases (MMPs) are a family of proteases that target many extracellular proteins including other proteases, growth factors, cell surface receptors, and adhesion molecules (1). Among the family members, MMP-2, MMP-3, MMP-7, and MMP-9 have been characterized as important factors for normal tissue remodeling during embryonic development, wound healing, tumor invasion, angiogenesis, carcinogenesis, and apoptosis (2-4). Research studies have shown that MMP activity correlates with cancer development (2). One mechanism of MMP regulation is transcriptional (5). Once synthesized, MMP exists as a latent proenzyme. Maximum MMP activity requires proteolytic cleavage to generate active MMPs by releasing the inhibitory propeptide domain from the full-length protein (5).	
Background References	<ol style="list-style-type: none"> McCawley, L.J. and Matrisian, L.M. (2001) <i>Curr Opin Cell Biol</i> 13, 534-40. Coussens, L.M. et al. (2002) <i>Science</i> 295, 2387-92. Sternlicht, M.D. et al. (1999) <i>Cell</i> 98, 137-46. Vu, T.H. et al. (1998) <i>Cell</i> 93, 411-22. Nagase, H. et al. (1990) <i>Biochemistry</i> 29, 5783-9. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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