## #3852 Store at -20C

## **MMP-9** Antibody



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

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 84, 92	<b>Source:</b> Rabbit	UniProt ID: #P14780	Entrez-Gene Id: 4318
Product Usage Information	Ąį	pplication		Dilution		
	W	estern Blotting		1:1000		
	Im	munoprecipitation			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		MMP-9 Antibody detects full length (proenzyme, 92 kDa) and cleaved (active enzyme, 84 kDa) MMP-9.				
Species predicted to react based on 100% sequence homology	6	t.				
Source / Purification				unizing animals with a synthetic peptide corresponding to P-9. Antibodies are purified by protein A and peptide affinity		
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 Referer	2. 0 3. 9	<ol> <li>McCawley, L.J. and Matrisian, L.M. (2001) Curr Opin Cell Biol 13, 534-40.</li> <li>Coussens, L.M. et al. (2002) Science 295, 2387-92.</li> <li>Sternlicht, M.D. et al. (1999) Cell 98, 137-46.</li> <li>Vu, T.H. et al. (1998) Cell 93, 411-22.</li> </ol>				

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 IP: Immunoprecipitation

**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

5. Nagase, H. et al. (1990) Biochemistry 29, 5783-9.

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**Limited Uses** 

## MMP-9 Antibody (#3852) Datasheet Without Images Cell Signaling Technology

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