7809 Store at -200

MMP-2 (D2O4T) Rabbit mAb



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Applications: FWB, W-S, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 64,72	Source/Isotype: Rabbit IgG	UniProt ID: #P08253	Entrez-Gene Id: 4313	
Product Usage	Αŗ	pplication			Dilution		
Information	W	estern Blotting			1:1000		
	Siı	mple Western™			1:10 - 1:50		
	Im	munoprecipitation			1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivi	ity MM	MMP-2 (D2O4T) Rabbit mAb recognizes endogenous levels of total MMP-2 protein.					
Species predicted to react based on 100% sequence homology:)	t					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro117 of human MMP-2 protein.					
Background	incl fam nor car can exis	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 Referen	2. 0	1. McCawley, L.J. and Matrisian, L.M. (2001) <i>Curr Opin Cell Biol</i> 13, 534-40. 2. Coussens, L.M. et al. (2002) <i>Science</i> 295, 2387-92. 3. Sternlicht, M.D. et al. (1999) <i>Cell</i> 98, 137-46.					

- 4. Vu, T.H. et al. (1998) Cell 93, 411-22.
- 5. Nagase, H. et al. (1990) Biochemistry 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 **W-S:** Simple Western™ **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

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1/1/24, 12:53 PM **Limited Uses**

MMP-2 (D2O4T) Rabbit mAb (#87809) Datasheet Without Images Cell Signaling Technology

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