

#27647 Store at +4°C

MMP-9 (D6O3H) XP® Rabbit mAb (PE Conjugate)**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P14780	Entrez-Gene Id: 4318
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	MMP-9 (D6O3H) XP® Rabbit mAb (PE Conjugate) recognizes the full-length, proenzyme (92 kDa) and the cleaved, active enzyme (84 kDa) of MMP-9.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe542 of human MMP-9 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated MMP-9 (D6O3H) XP® Rabbit mAb #13667.	
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"> 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) <i>Cell</i> 93, 411-22. 5. 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).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
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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