

Monoclonal Mouse IgG₁ Clone # 10D6 Catalog Number: MAB905

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects the pro and active forms of human MMP-3 in Western blots. In Western blots, no cross-reactivity with recombinant human (rh) MMP-1, rhMMP-2 or rhMMP-9 is observed.	
Source	Monoclonal Mouse IgG ₁ Clone # 10D6	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human MMP-3	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either Iyophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS

	Recommended	Sample
	Concentration	
Western Blot	1 µg/mL	Recombinant Human MMP-3 Western Blot
		Standard (Catalog # WBC015)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked
		with Recombinant Human MMP-3
		(Catalog # 513-MP), see our available
		Western blot detection antibodies

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.	
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 12 months from date of receipt, -20 to -70 °C as supplied. 	
	1 month, 2 to 8 °C under sterile conditions after reconstitution.	

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-3 (stromelysin-1), can degrade a broad range of substrates including collagen α chains, aggrecan, laminin, fibronectin, elastin, casein, α -1 antitrypsin, myelin basic protein, IL-1 β , IGFBP-3, pro MMP-1, pro MMP-7, pro MMP-9 and pro MMP-13. MMP-3 does not cleave the triple helical region of interstitial collagens, a characteristic which distinguishes the stromelysins from the collagenases. The MMP-3 substrate repertoire extends beyond extracellular matrix proteins and implicates MMP-3 in roles other than direct tissue remodelling, for instance, enzyme cascades and cytokine regulation. MMP-3 is expressed by fibroblasts, chrondrocytes, osteoblasts, endothelial cells, smooth muscle cells and macrophages. Structurally, MMP-3 may be divided into several distinct domains; a pro-domain which is cleaved upon activation; a catalytic domain containing the zinc binding site; a short hinge region and a carboxyl terminal (hemopexin-like) domain.

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