For Research Use Only

MMP1 Recombinant antibody

Catalog Number:83114-2-RR

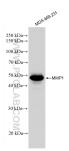


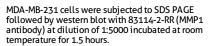
Basic Information	Catalog Number: 83114-2-RR	GenBank Accession Number: BC013875	Purification Method: Protein A purification	
	Size: 1000 µg/ml	GenelD (NCBI): 4312	CloneNo.: 230343G1	
	Source: Rabbit	UNIPROT ID: P03956 Full Name: matrix metallopeptidase 1 (interstitial collagenase)	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:50-1:500	
	lsotype: IgG			
		Calculated MW: 54 kDa		
		Observed MW: 45-48 kDa		
Applications	Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : MDA-MB-231 cells, IF/ICC : HepG2 cells,		
	Species Specificity: human			
Background Informati	collagen, namely types I, II, III, V regulated in cancer cells. It can b minor form (25 kDa) is the glyco kDa form can act as activator for fibroblasts have been reported a	MMP1, also named as CLG, belongs to the peptidase M10A family. MMP is the main enzyme that cleaves fibrillar collagen, namely types I, II, III, VII, and X.It is involved in cell migration and invasion, and is frequently up-regulated in cancer cells. It can be cleavage to two major forms (22 kDa and 27 kDa) by undergoing autolytic, and the minor form (25 kDa) is the glycosylated form of the 22 kDa form. The 27 kDa form has no activity while the 22/25 kDa form can act as activator for collagenase. The sizes of pro-MMP-1 and active MMP-1 from human synovial fibroblasts have been reported as 52 to 56 kDa, depending on glycosylation, and 41 to 45 kDa, respectively. In addition, a band of 62-kDa observed in the current study is pro-MMP-1(PMID:9418730).		
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20	d 50% glycerol pH 7.3.		

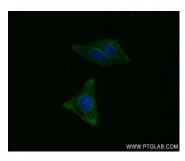
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

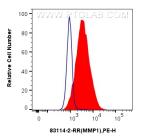
Selected Validation Data



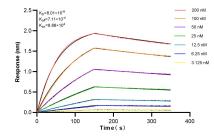




Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MMP1 antibody (83114-2-RR, Clone: 230343G1) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10^6 HeLa cells were intracellularly stained with 0.25 ug MMP1 Recombinant antibody (83114-2-RR, Clone:230343G1) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83114-2-RR against Human MMP1 were performed. The affinity constant is 8.01 nM.