

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: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4312	CloneNo.: 230343G1
Source: Rabbit	UNIPROT ID: P03956	Recommended Dilutions: WB 1:2000-1:10000 IF 1:50-1:500
Isotype: IgG	Full Name: matrix metalloproteinase 1 (interstitial collagenase)	
	Calculated MW: 54 kDa	
	Observed MW: 45-48 kDa	

Applications

Tested Applications: WB, IF, FC, ELISA	Positive Controls:
Species Specificity: Human	WB : MDA-MB-231 cells, IF : HepG2 cells,

Background Information

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 year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

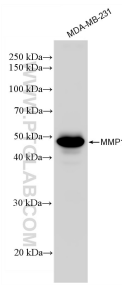
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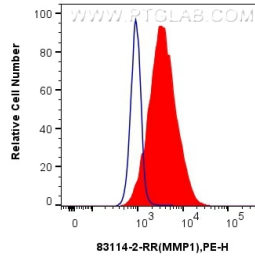
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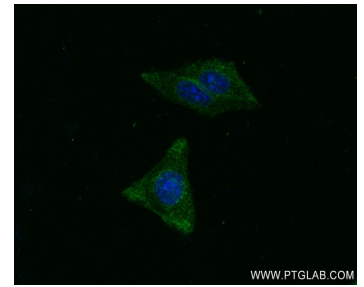
Selected Validation Data



MDA-MB-231 cells were subjected to SDS PAGE followed by western blot with 83114-2-RR (MMP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g MMP1 Recombinant antibody (83114-2-RR, Clone:230343G1) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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).