

For Research Use Only

# MMP13 Recombinant antibody

Catalog Number: 83188-4-RR **1 Publications**



## Basic Information

<b>Catalog Number:</b> 83188-4-RR	<b>GenBank Accession Number:</b> BC074808	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 300 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4322	<b>CloneNo.:</b> 240060A1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P45452	<b>Recommended Dilutions:</b> WB 1:1000-1:3000
<b>Isotype:</b> IgG	<b>Full Name:</b> matrix metalloproteinase 13	
<b>Immunogen Catalog Number:</b> AG34892	<b>Calculated MW:</b> 471 aa, 54 kDa	
	<b>Observed MW:</b> 70 kDa, 54 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : MCF-7 cells, MDA-MB-231 cells, PC-3 cells
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

## Background Information

MMP-13(Matrix metalloproteinase-13), cleaves type I collagen and was previously thought to be the rodent analogue of human interstitial MMP-1. MMP-13 is found in hypertrophic and calcifying cartilage of mammalian growth plate. The bands seen with rat MMP-13 are consistent with a 59-kDa latent form and a 43-kDa active form reported for this enzyme, along with a smaller band at approximately 30 kDa(PMID:10771523). It also can be detected 3 bands that the glycosylated proMMP-13 (70 kDa), unglycosylated form (55 kDa), and active MMP-13 enzyme (40kDa) by western blot(PMID:18332263).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhao Zhang	39426230	Int Immunopharmacol	WB

## Storage

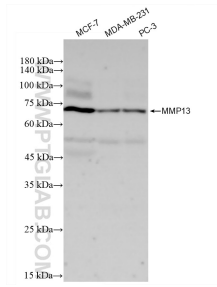
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

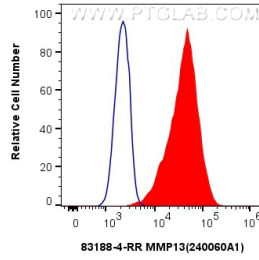
For technical support and original validation data for this product please contact:  
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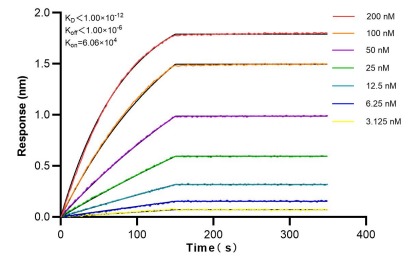
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83188-4-RR (MMP13 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug MMP13 Recombinant antibody (83188-4-RR, Clone:240060A1) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biacore interferometry (BLI) kinetic assays of 83188-4-RR against Human MMP13 were performed. The affinity constant is below 1 pM.