

For Research Use Only

# Timp-3 Recombinant antibody

Catalog Number: 83627-1-RR



## Basic Information

<b>Catalog Number:</b> 83627-1-RR	<b>GenBank Accession Number:</b> BC014277	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7078	<b>CloneNo.:</b> 240374D8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35625	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> TIMP metalloproteinase inhibitor 3	
<b>Immunogen Catalog Number:</b> AG34657	<b>Calculated MW:</b> 24 kDa	
	<b>Observed MW:</b> 24-33 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : human placenta tissue,
<b>Species Specificity:</b> human	

## Background Information

Timp-3 (TIMP metalloproteinase inhibitor 3), also known as SFD. It is expected to be located in extracellular space, and the protein is enriched in the placenta tissue and fat tissue. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix (ECM). Expression of this gene is induced in response to mitogenic stimulation, and this netrin domain-containing protein is localized to the ECM. Mutations in this gene have been associated with the autosomal dominant disorder Sorsby's fundus dystrophy. TIMP-3 is expressed as an unglycosylated 24 kDa and glycosylated 29 kDa protein with inhibitory activity against interstitial collagenase, stromelysin-1, and gelatinases A and B (PMID:11827795).

## Storage

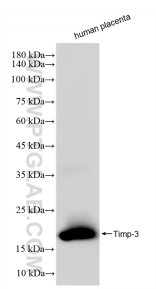
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

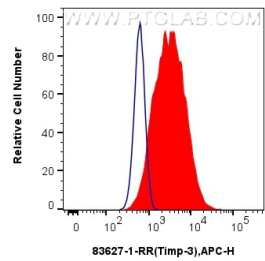
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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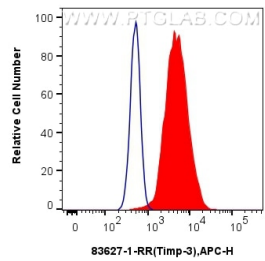
Selected Validation Data



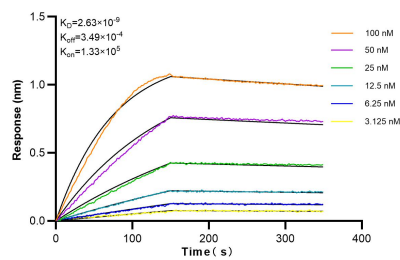
human placenta tissue were subjected to SDS PAGE followed by western blot with 83627-1-RR (Timp-3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> MDA-MB-231 cells were intracellularly stained with 0.25 ug Timp-3 Recombinant antibody (83627-1-RR, Clone:240374D8) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug Timp-3 Recombinant antibody (83627-1-RR, Clone:240374D8) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83627-1-RR against Human Timp-3 were performed. The affinity constant is 2.63 nM.