

For Research Use Only

# COX-1/Cyclooxygenase-1 Recombinant antibody

Catalog Number:84151-4-RR



## Basic Information

<b>Catalog Number:</b> 84151-4-RR	<b>GenBank Accession Number:</b> BC029840	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5742	<b>CloneNo.:</b> 241373C10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P23219	<b>Recommended Dilutions:</b> WB 1:1000-1:8000
<b>Isotype:</b> IgG	<b>Full Name:</b> prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	
<b>Immunogen Catalog Number:</b> AG4055	<b>Calculated MW:</b> 599 aa, 69 kDa	
	<b>Observed MW:</b> 60-72 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : C2C12 cells, THP-1 cells, NIH/3T3 cells
<b>Species Specificity:</b> human, mouse	

## Background Information

PTGS1(Prostaglandin G/H synthase 1) belongs to the prostaglandin G/H synthase family and catalyzes the conversion of arachidonic acid to prostaglandin H<sub>2</sub>, which is subsequently metabolized to various biologically active prostaglandins. It is also named as COX1(Cyclooxygenase-1). There is no PTGS1 expression in fetal samples (prostate, seminal vesicles, or ejaculatory ducts), and only minimal expression in adult tissues (PMID: 10999846). PTGS1 has some isoforms with MW of 56-72 kD and PTGS1 can form homodimer.

## 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

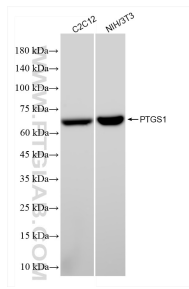
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

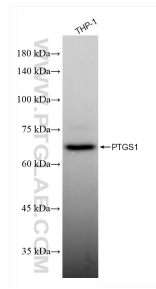
E: proteintech@ptglab.com  
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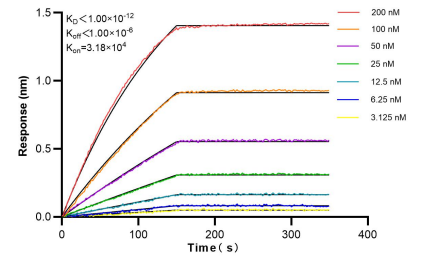
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84151-4-RR (COX-1/Cyclooxygenase-1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



THP-1 cells were subjected to SDS PAGE followed by western blot with 84151-4-RR (COX-1/Cyclooxygenase-1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Bi-layer interferometry (BLI) kinetic assays of 84151-4-RR against Human COX-1/Cyclooxygenase-1 were performed. The affinity constant is below 1 pM.