

For Research Use Only

COX-1/Cyclooxygenase-1 Recombinant antibody

Catalog Number: 84151-4-RR



Basic Information

Catalog Number:

84151-4-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4055

GenBank Accession Number:

BC029840

GeneID (NCBI):

5742

UNIPROT ID:

P23219

Full Name:

prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)

Calculated MW:

599 aa, 69 kDa

Observed MW:

60-72 kDa

Purification Method:

Protein A purification

CloneNo.:

241373C10

Recommended Dilutions:

WB 1:1000-1:8000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : C2C12 cells, THP-1 cells, NIH/3T3 cells

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 H₂, 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

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

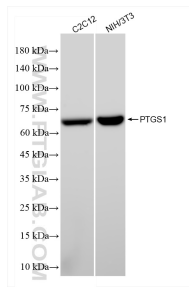
T: 4006900926

E: Proteintech-CN@ptglab.com

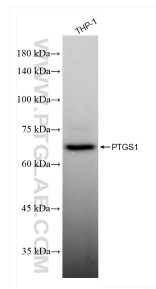
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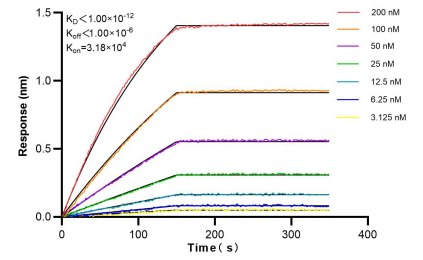
Selected Validation Data



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.