

COX-1/Cyclooxygenase-1 Monoclonal antibody

Catalog Number: **67346-1-Ig**

Basic Information

Catalog Number:

67346-1-Ig

Size:

1400 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG28280

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.:

1F12G7

Recommended Dilutions:

WB 1:1000-1:3000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

**WB : L02 cells, K-562 cells, A431 cells, Human
peripheral blood leukocyte**

IF/ICC : HeLa 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:

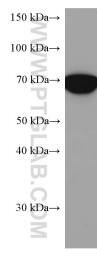
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

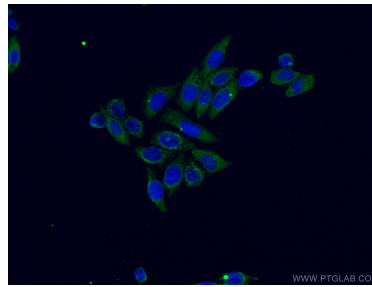
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



L02 cells were subjected to SDS PAGE followed by western blot with 67346-1-Ig (PTGS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 67346-1-Ig (PTGS1 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).