

For Research Use Only

# CoraLite®594-conjugated COX-1/Cyclooxygenase-1 Monoclonal antibody

Catalog Number: CL594-67346



## Basic Information

<b>Catalog Number:</b> CL594-67346	<b>GenBank Accession Number:</b> BC029840	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5742	<b>CloneNo.:</b> 1F12G7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P23219	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG28280	<b>Calculated MW:</b> 599 aa, 69 kDa	
	<b>Observed MW:</b> 60-72 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF/ICC : HeLa cells,
<b>Species Specificity:</b> human	

## 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.

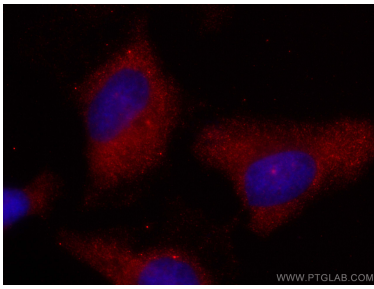
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CoraLite®594 PTGS1 antibody (CL594-67346, Clone: 1F12G7 ) at dilution of 1:200.