

# CoraLite® Plus 488-conjugated PTGS1 Monoclonal antibody

Catalog Number: **CL488-67346**

## Basic Information

<b>Catalog Number:</b> CL488-67346	<b>GenBank Accession Number:</b> BC029840	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 5742	<b>CloneNo.:</b> 1F12G7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P23219	<b>Recommended Dilutions:</b> IF 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> 493 nm / 522 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 : HeLa cells,
<b>Species Specificity:</b> Human	

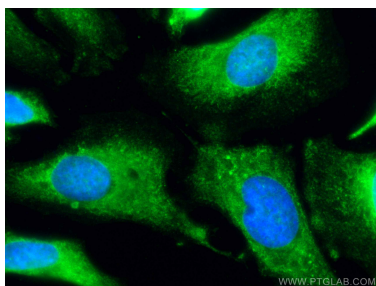
## Background Information

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.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite® Plus 488 PTGS1 antibody (CL488-67346, Clone: 1F12G7 ) at dilution of 1:100.