

## ARG63193 anti-COX1 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes COX1
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Specificity	This antibody is expected to recognise both human isoforms of this protein according to NP_000953.2 and NP_542158.1.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	COX1
Species	Human
Immunogen	C-QDDGPAVERPSTEL
Conjugation	Un-conjugated
Alternate Names	Prostaglandin H2 synthase 1; COX-1; PHS1; Cyclooxygenase-1; PGHS1; COX3; COX1; PGG/HS; PTGHS; PES-1; EC 1.14.99.1; PHS 1; Prostaglandin-endoperoxide synthase 1; PGHS-1; PCOX1; PGH synthase 1; Prostaglandin G/H synthase 1

### Application Instructions

Application table	Application	Dilution
	ICC/IF	5 µg/ml
	WB	0.5 - 2 µg/ml

**Application Note** WB: Recommend incubate at RT for 1h.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

**Database links** [GeneID: 19224 Mouse](#)  
[GeneID: 5742 Human](#)  
[Swiss-port # P22437 Mouse](#)  
[Swiss-port # P23219 Human](#)

**Background** Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes PTGS1, which regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. PTGS1 is thought to be involved in cell-cell signaling and maintaining tissue homeostasis. Alternative splicing of this gene generates two transcript variants. The expression of these two transcripts is differentially regulated by relevant cytokines and growth factors. [provided by RefSeq, Jul 2008]

**Research Area** Cancer antibody; Cell Biology and Cellular Response antibody; Immune System antibody; Metabolism antibody; Signaling Transduction antibody

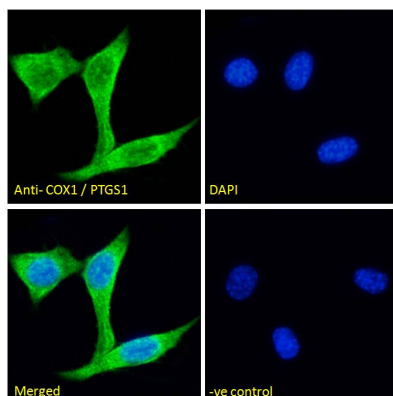
**Calculated Mw** 69 kDa

## Images



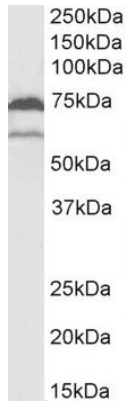
ARG63193 anti-COX1 antibody WB image

Western blot: HeLa lysate (RIPA buffer, 30µg total protein per lane) stained with ARG63193 anti-COX1 antibody at 1 µg/ml dilution.



ARG63193 anti-COX1 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed NIH/3T3 cells permeabilized with 0.15% Triton. Cells were stained with ARG63193 anti-COX1 antibody (green) at 5 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 5 µg/ml dilution.



#### ARG63193 anti-COX1 antibody WB image

Western blot: 35  $\mu$ g of U937 cell lysate (in RIPA buffer) stained with ARG63193 anti-COX1 antibody at 2  $\mu$ g/ml dilution and incubated at RT for 1 hour.



#### ARG63193 anti-COX1 antibody WB image

Western blot: 35  $\mu$ g of Mouse kidney (A) and skeletal muscle (B) lysates (in RIPA buffer) stained with ARG63193 anti-COX1 antibody at 0.5  $\mu$ g/ml dilution and incubated at RT for 1 hour.