

## ARG23725 anti-COX1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes COX1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	COX1
Species	Human
Immunogen	Synthetic peptide of Human Cyclooxygenase 1.
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	1:100
	WB	1:1000

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

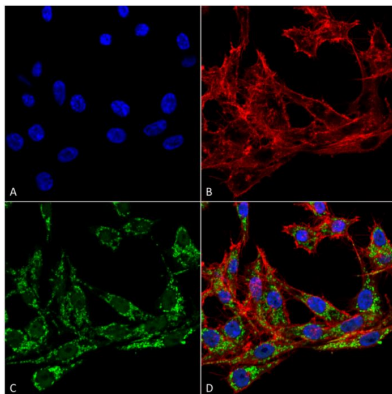
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.09% Sodium azide and 50% Glycerol.
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 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. 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

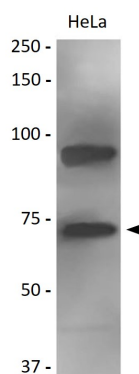
Gene Symbol	PTGS1
Gene Full Name	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
Background	This is one of two genes encoding similar enzymes that catalyze the conversion of arachidonate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. Based on its ability to function as both a cyclooxygenase and as a peroxidase, the encoded protein has been identified as a moonlighting protein. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]
Function	Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis. Involved in the constitutive production of prostanoids in particular in the stomach and platelets. In gastric epithelial cells, it is a key step in the generation of prostaglandins, such as prostaglandin E2 (PGE2), which plays an important role in cytoprotection. In platelets, it is involved in the generation of thromboxane A2 (TXA2), which promotes platelet activation and aggregation, vasoconstriction and proliferation of vascular smooth muscle cells. [UniProt]
Calculated Mw	69 kDa
Cellular Localization	Endoplasmic reticulum membrane, Microsome Membrane, Peripheral membrane protein. [UniProt]

## Images



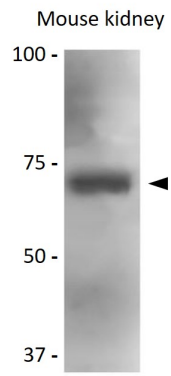
ARG23725 anti-COX1 antibody ICC/IF image

Immunofluorescence: Human colon carcinoma cell line (RKO) fixed with 4% Formaldehyde for 15 min at RT. Cells were stained with ARG23725 anti-COX1 antibody at 1:100 for 60 min at RT. Magnification: 60X. (A) DAPI nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Primary antibodies. (D) Composite.



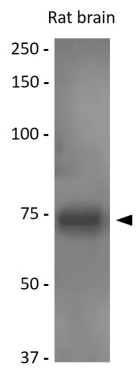
ARG23725 anti-COX1 antibody WB image

Western blot: 15 µg of HeLa cell lysates stained with ARG23725 anti-COX1 antibody at 1:1000 for 16 hours at 4°C. .



ARG23725 anti-COX1 antibody WB image

Western blot: 15  $\mu$ g of Mouse kidney lysates stained with ARG23725 anti-COX1 antibody at 1:1000 for 16 hours at 4°C.



ARG23725 anti-COX1 antibody WB image

Western blot: 15  $\mu$ g of Rat brain cell lysate stained with ARG23725 anti-COX1 antibody at 1:1000 for 16 hours at 4°C.