

ARG56493 anti-COX1 antibody

Package: 250 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes COX1
Tested Reactivity	Ms, Rat
Species Does Not React With	Hu, Sheep
Tested Application	IHC, WB
Specificity	This antibody does not react to COX-2.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	COX1
Species	Mouse
Immunogen	Synthetic peptide around aa. 274-288 of Mouse COX-1. (LMRYPPGVPPERQMA)
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
	IHC	Assay-dependent
	WB	1:200
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

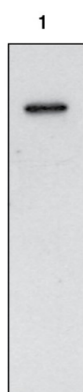
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
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

Database links	GeneID: 19224 Mouse Swiss-port # P22437 Mouse
Gene Symbol	Ptgs1
Gene Full Name	prostaglandin-endoperoxide synthase 1
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

Images



ARG56493 anti-COX1 antibody WB image

Western blot: 1) 30 µg of Rat brain homogenate stained with ARG56493 anti-COX1 antibody.