

Product datasheet

info@arigobio.com

ARG56546 anti-COX2 antibody (FITC)

Package: 50 μg Store at: 4°C

Summary

Product Description Rabbit Polyclonal antibody recognizes COX2

Tested Reactivity Hu, Ms, Rat

Tested Application FACS, ICC/IF, WB

Specificity This antibody does not react to COX-1.

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name COX2

Species Mouse

Immunogen Synthetic peptide around aa. 570-598 of Mouse COX-2. (DPQPTKTATINASASHSRLDDINPTVLIK)

Conjugation FITC

Alternate Names PHS II; Prostaglandin H2 synthase 2; PHS-2; Cyclooxygenase-2; PGHS-2; COX2; PGG/HS; COX-2;

GRIPGHS; hCox-2; PGH synthase 2; Prostaglandin G/H synthase 2; Prostaglandin-endoperoxide synthase

2; EC 1.14.99.1

Application Instructions

Application table	Application	Dilution
	FACS	1:250 - 1:500
	ICC/IF	1:250 - 1:500
	WB	1:250 - 1:500
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 (pH 7.2) and 0.02% Sodium azide.	
Preservative	0.02% Sodium azide.	
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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 Ptgs2

Gene Full Name prostaglandin-endoperoxide synthase 2

Background COX2: 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

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 the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis.

[provided by RefSeq, Feb 2009]

Function COX2 converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis

(PubMed:26859324, PubMed:27226593). Constitutively expressed in some tissues in physiological conditions, such as the endothelium, kidney and brain, and in pathological conditions, such as in cancer. PTGS2 is responsible for production of inflammatory prostaglandins. Up-regulation of PTGS2 is also associated with increased cell adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis. In cancer cells, PTGS2 is a key step in the production of prostaglandin E2 (PGE2), which plays important roles in modulating motility, proliferation and resistance to apoptosis. During neuroinflammation, plays a role in neuronal secretion of specialized preresolving mediators (SPMs),

especially 15-R-lipoxin A4, that regulates phagocytic microglia. [UniProt]

Highlight Related products:

COX2 antibodies; COX2 Duos / Panels; Anti-Rabbit IgG secondary antibodies;

Related news:

Exploring Antiviral Immune Response

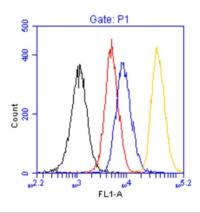
Research Area Inflammation Study antibody

Calculated Mw 69 kDa

PTM S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys

residues in addition to Cys-526.

Images



ARG56546 anti-COX2 antibody (FITC) FACS image

Flow Cytometry: RAW 264.7 cells. Black: Blank cells; Red: Normal Rabbit IgG-FITC (1 μ g/ml); Blue: ARG56546 anti-COX2 antibody (FITC) (1 μ g/ml); Yellow: ARG56546 (1 μ g/ml).

Cells were fixed with 1% formaldehyde, blocked with 3% normal goat serum, and washed between steps. Samples gated to exclude dehris.