

Product datasheet

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ARG56543 anti-COX2 antibody [CX229] (FITC)

Package: 50 μg Store at: 4°C

Summary

Product Description Mouse Monoclonal antibody [CX229] recognizes COX2

Tested Reactivity Hu, Sheep
Species Does Not React With Ms, Rat, Rb
Tested Application FACS, ICC/IF

Specificity This antibody does not react to COX-1.

Host Mouse

Clonality Monoclonal

Clone CX229

Isotype IgG1

Target Name COX2

Species Human

Immunogen Synthetic peptide around aa. 580-599 of Human COX-2. (NASSSRSGLDDINPTVLLKE)

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 μg/10^6 cells
	ICC/IF	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Purification	Purified	
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

Database links GeneID: 5743 Human

Swiss-port # P35354 Human

Gene Symbol PTGS2

Gene Full Name prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)

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 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]

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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.