

Product datasheet

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ARG56491 anti-COX2 antibody

Package: 250 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes COX2

Tested Reactivity Hu, Ms, Rat, Gpig, Mk, Rb, Sheep

Tested Application ICC/IF, IHC-P, 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 / Rat COX-2.

Conjugation Un-conjugated

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
	ICC/IF	1:300
	IHC-P	1:300
	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.

Buffer PBS, pH 7.2, 50% glycerol and 0.02% sodium azide

Preservative 0.02% sodium azide

Stabilizer 50% glycerol

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.

Bioinformation

Gene Symbol Ptgs2

Gene Full Name prostaglandin-endoperoxide synthase 2
Background COX2: Prostaglandin-endoperoxide synt

round

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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ARG30323 Inflammation Antibody Panel

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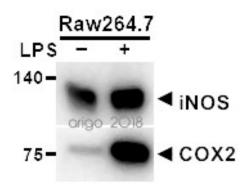
Research Area Inflammation Study antibody

Calculated Mw 69 kDa

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

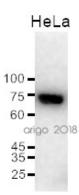
residues in addition to Cys-526.

Images



ARG56491 anti-COX2 antibody WB image

Western blot: 20 μ g of Raw264.7 cells untreated or treated with LPS. The blots were stained with <u>ARG55060</u> anti-iNOS antibody at 1:500 dilution and ARG56491 anti-COX2 antibody at 1:200 dilution.



ARG56491 anti-COX2 antibody WB image

Western blot: 20 μg of HeLa cell lysate stained with ARG56491 anti-COX2 antibody at 1:200 dilution.