

Cox2 Antibody

Catalog No: #33345



Package Size: #33345-1 50ul #33345-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Cox2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous levels of total Cox2 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from human Cox2.
Conjugates	Unconjugated
Target Name	Cox2
Other Names	COX2; GRIPGHS; PGHS2; CYCLOOXYGENASE 2; GLUCOCORTICOID-REGULATED INFLAMMATORY PROSTAGLANDIN G/H SYNTHASE
Accession No.	Swiss-Prot: P35354NCBI Gene ID: 5743
SDS-PAGE MW	80kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

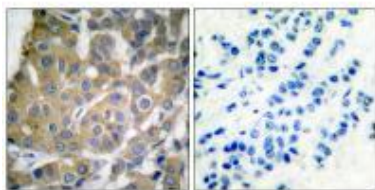
Application Details

Western blotting: 1:500~1:3000

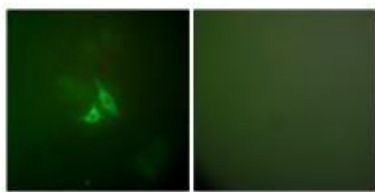
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:500

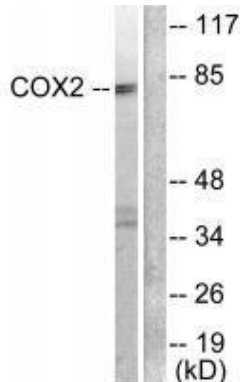
Images



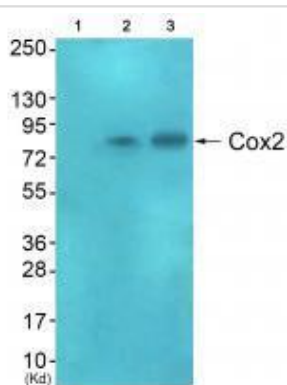
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Cox2 antibody #33345.



Immunofluorescence analysis of A549 cells, using Cox2 antibody #33345.



Western blot analysis of extracts from A549 cells, using Cox2 antibody #33345.



Western blot analysis of extracts from HeLa cells (Lane 2), and A549 cells (Lane 3), using Cox2 antibody #33345. The lane on the left is treated with synthesized peptide.

Background

Converts arachidonate to prostaglandin H₂ (PGH₂), a committed step in prostanoid synthesis. 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.

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Keith P. Choe, J. Exp. Biol., May 2006; 209: 1696 - 1708

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Axel J. Baumgarten, AACR Meeting Abstracts, Mar 2004; 2004: 1078.

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el at., Responses of inflammation signaling pathway by saucerneol D from elicitor-treated Saururus chinensis on pro-inflammatory responses in

LPS-stimulated Raw 264.7 cell., , (2021)

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el at., ROS-Sp1 axis is involved in thermochemotherapy-enhanced sensitivity of pancreatic cancer cells to gemcitabineIn*Cell Biol Int*On2023 NovbyPan Xi?1?2,Xiaojuan Ma et al..PMID: 37545170, , (2023)

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[PMID:39604956](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.