#### **Product Datasheet**

# Cox2 Antibody

Catalog No: #33345

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



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

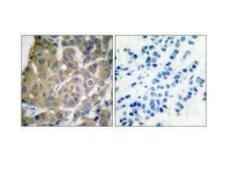
# Description

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	Hu Ms Rt
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 Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide
	and 50% glycerol.
Storage	Store at -20°C

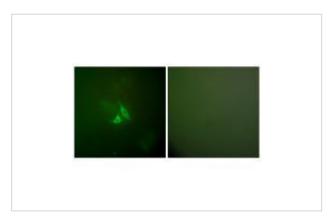
# **Application Details**

Western blotting: 1:500~1:3000
Immunohistochemistry: 1:50~1:100
Immunofluorescence: 1:100~1:500

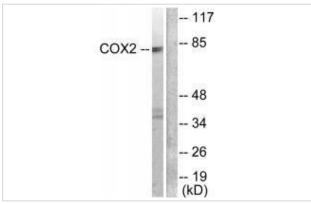
### **Images**



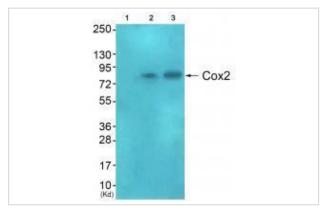
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Cox2 antibody #33345.



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 antiobdy #33345. The lane on the left is treated with systhesized 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.

Nathalie Bonnefoy, Mol. Cell. Biol., Apr 2001; 21: 2359 - 2372.

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.

### **Published Papers**

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PMID:30606979

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

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#### PMID:37852456

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el at., Gut microbiota analysis and LC-MS-based metabolomics to investigate AMPK/NF-κB regulated by Clostridium butyricum in the treatment of acute pancreatitis. In J Transl Med on 2024 Nov 27 by Biyan Wen, Yaoxing Huang, et al..PMID:39604956, , (2024)

PMID:39604956

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