

Rabbit Cox2 Polyclonal Antibody | anti-Cox2 antibody

Cox2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31143	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry

PRODUCT SYNONYMS

Cox2; Polyclonal Antibody; Cox2 Antibody; COX 2; COX-2; COX2; Cyclooxygenase 2; Cyclooxygenase 2b; Cyclooxygenase; Cyclooxygenase-2; Cyclooxygenase2; EC 1.14.99.1; fj02a10; Glucocorticoid-regulated inflammatory cyclooxygenase; Glucocorticoid-regulated inflammatory Prostaglandin G/H synthase; GRIPGHS; hCox 2; Macrophage activation-associated marker protein P71/73; OTTHUMP00000033524; PES-2; PGG/HS; PGH synthase 2; PGH2_HUMAN; PGHS 2; PGHS-2; PGHS2; PHS 2; PHS II; PHS2; Prostaglandin endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase); Prostaglandin endoperoxide synthase 2; Prostaglandin G/H synthase 2; Prostaglandin G/H synthase 2 precursor; Prostaglandin G/H synthase and cyclooxygenase; Prostaglandin G/H synthase; Prostaglandin H2 synthase 2; prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase); Prostaglandin-endoperoxide synthase 2; PTGS2; ptgs2a; TIS10; TIS10 protein; unp1239; wu:fj02a10; anti-Cox2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Cox2 Antibody detects endogenous levels of total Cox2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Form/Format	Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	604
Applicable Applications for anti-Cox2 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 IF/ICC: 1:100-1:500 *The optimal dilutions should be determined by the end user. IMPORTANT: For western blot, incubate membrane with diluted primary Abin 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.
Immunogen	A synthesized peptide derived from human Cox2, corresponding to a region within C terminal amino acids.
Preparation and Storage	Store at -20°C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

staining A549 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor® 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



Application Data

E4BP4 mediates glucocorticoid-regulated adipogenesis through COX2 YangYang a, b , Hongkui Wei a, b , Tongxing Song a, b , Anle Cai a, b , Yuanfei Zhou a, b , Jie Peng a, b , Siwen Jiang b, c , Jian Peng a, b, *



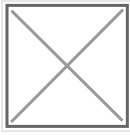
WB (Western Blot)

Western blot analysis of extracts from Mouse spleen, using Cox2 Antibody. The lane on the left was treated with blocking peptide.Observed bands: 70 kDa.



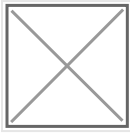
WB (Western Blot)

Western blot analysis of Cox2 expression in A549 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

At 1/100 staining Human cervical cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IF (Immunofluorescence)

At 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibod

ADDITIONAL INFORMATION

Related Product Information for anti-Cox2 antibody	Description: COX-2 Mediates the formation of prostaglandins from arachidonate. May have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity. Homodimer. Belongs to the prostaglandin G/H synthase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506265
NCBI GeneID	5743
NCBI Accession #	NP_000954.1
NCBI GenBank Nucleotide #	NP_000954.1
UniProt Accession #	P35354
Molecular Weight	80 kDa, 70kDa
NCBI Official Full Name	prostaglandin G/H synthase 2
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 2
NCBI Official Symbol	PTGS2
NCBI Official Synonym Symbols	COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS
NCBI Protein Information	prostaglandin G/H synthase 2
UniProt Protein Name	Prostaglandin G/H synthase 2
UniProt Gene Name	PTGS2
UniProt Synonym Gene Names	COX2; COX-2; PGH synthase 2; PGHS-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cox2-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/31143>