



## Rabbit Anti-Cyclooxygenase 2 antibody

SL0732R

<b>Product Name:</b>	Cyclooxygenase 2
<b>Chinese Name:</b>	环氧合酶2/前列腺素内过氧化物合成酶2抗体
<b>Alias:</b>	COX 2; COX2; COX-2; Cyclooxygenase; Cyclooxygenase2; hCox 2; PGG/HS; PGH synthase 2; PGHS 2; PGHS2; PHS 2; PHS II; PHS2 ; Prostaglandin endoperoxide synthase 2; Prostaglandin G/H synthase 2 precursor; Prostaglandin G/H synthase and cyclooxygenase; Prostaglandin G/H synthase; Prostaglandin H2 synthase 2; PTGS2; TIS10II; PGH2_HUMAN.
<b>文献引用</b> <b>PubMed</b> :	<p><b>Specific References(10)</b> SL0732R has been referenced in 10 publications.</p> <p><b>[IF=3.73]</b> Gao, Jin-Hang, et al. "Celecoxib Ameliorates Portal Hypertension of the Cirrhotic Rats through the Dual Inhibitory Effects on the Intrahepatic Fibrosis and Angiogenesis." PLOS ONE 8.7 (2013): e69309. <b>WB;Rat.</b>  <a href="#">PubMed:23922700</a></p> <p><b>[IF=2.02]</b> Chu, Changbin, et al. "Celastrol protects kidney against ischemia–reperfusion-induced injury in rats." Journal of Surgical Research (2013). <b>IHC-P;Rat.</b>  <a href="#">PubMed:23981709</a></p> <p><b>[IF=2.55]</b> Zhang, Jing-Yao, et al. "Protective role of hydrogen-rich water on aspirin-induced gastric mucosal damage in rats." World J Gastroenterol 20.6 (2014): 1614-1622. <b>IHC-P;Rat.</b>  <a href="#">PubMed:n/a</a></p> <p><b>[IF=2.42]</b> Li, Weifeng, et al. "Protective effect of sanguinarine on LPS-induced endotoxic shock in mice and its effect on LPS-induced COX-2 expression and COX-2 associated PGE<sub>2</sub> release from peritoneal macrophages." International Immunopharmacology (2014). <b>IHC-P;Mouse.</b></p>

	<p style="text-align: center;"><a href="#">PubMed:25063710</a></p> <p><b>[IF=1.84]</b> de Moraes, Carolina Nogueira, et al. "Temporal analysis of FP receptor, CASP-3 and COX-2 mRNA expression and FP receptor and COX-2 protein expression in endometrial tissue from multiparous Nelore (<i>Bos taurus indicus</i>) cows treated with cloprostenol sodium during puerperium." <i>Theriogenology</i> (2014). <b>IHC-P; Bovine.</b></p> <p style="text-align: center;"><a href="#">PubMed:25442016</a></p> <p><b>[IF=2.38]</b> Hu, Ruiqi, et al. "The expression of prostaglandin-E2 and its receptor in the oviduct of Chinese brown frog (<i>Rana dybowskii</i>)." <i>Prostaglandins &amp; Other Lipid Mediators</i> (2016). <b>IHC-P; Others.</b></p> <p style="text-align: center;"><a href="#">PubMed:27246901</a></p> <p><b>[IF=2.86]</b> Li, Wei, et al. "Combined effects of cyclooxygenase-1 and cyclooxygenase-2 selective inhibitors on ovarian carcinoma in vivo." <i>International journal of molecular sciences</i> 12.1 (2011): 668-681. <b>WB; Mouse.</b></p> <p style="text-align: center;"><a href="#">PubMed:21340007</a></p> <p><b>[IF=4.82]</b> Fattori, Victor, et al. "Vinpocetine reduces diclofenac-induced acute kidney injury through inhibition of oxidative stress, apoptosis, cytokine production, and NF-κB activation in mice." <i>Pharmacological Research</i> (2017). <b>IHC-P; Mouse.</b></p> <p style="text-align: center;"><a href="#">PubMed:0</a></p> <p><b>[IF=3.25]</b> Li, Wei, et al. "Cyclin d1 expression and the inhibitory effect of celecoxib on ovarian tumor growth in vivo." <i>International journal of molecular sciences</i> 11.10 (2010): 3999-4013. <b>WB; Human.</b></p> <p style="text-align: center;"><a href="#">PubMed:21152316</a></p> <p><b>[IF=0.44]</b> Sutrisno, Sutrisno, et al. "The effect of genistein on TGF-β signal, dysregulation of apoptosis, cyclooxygenase-2 pathway, and NF-κB pathway in mice peritoneum of endometriosis model." <i>Middle East Fertility Society Journal</i> (2017). <b>IHC-P; Mouse.</b></p> <p style="text-align: center;"><a href="#">PubMed:0</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human, Mouse, Rat, Dog, Pig, Cow, Rabbit, Sheep,
<b>Applications:</b>	WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=1 μg/Test IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.

<b>Molecular weight:</b>	65kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Cyclooxygenase 2:501-604/604
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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]</p> <p><b>Function:</b> 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.</p> <p><b>Subunit:</b> Homodimer.</p> <p><b>Subcellular Location:</b> Microsome membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein.</p> <p><b>Post-translational modifications:</b> S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-561.</p> <p><b>Similarity:</b> Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.</p> <p><b>SWISS:</b> Q05769</p> <p><b>Gene ID:</b> 5743</p>

**Database links:**

[Entrez Gene: 5743](#)Human

[Entrez Gene: 19225](#)Mouse

[Entrez Gene: 29527](#)Rat

[Omim: 600262](#)Human

[SwissProt: P35354](#)Human

[SwissProt: Q05769](#)Mouse

[SwissProt: P35355](#)Rat

[Unigene: 196384](#)Human

[Unigene: 292547](#)Mouse

[Unigene: 44369](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Synthesis and Degradation (Synthesis and Degradation)

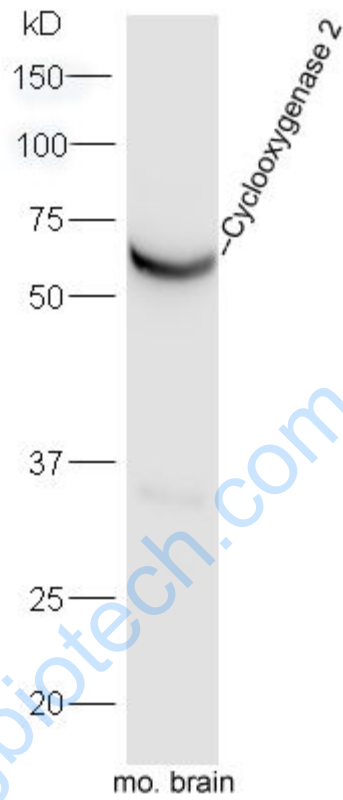
COX-2 前列腺素氧化环化酶-

2是前列腺素合成的关键酶之一, 为诱导性酶, 他参与细胞对生长因子、Tumour促进因子和cell

factor的反应, 这些因子均能诱导COX2表达, 它也参与前列腺素的合成。

COX2在80-90%的人结肠腺癌中表达显著增高, 而COX1表达却不变。

Picture:



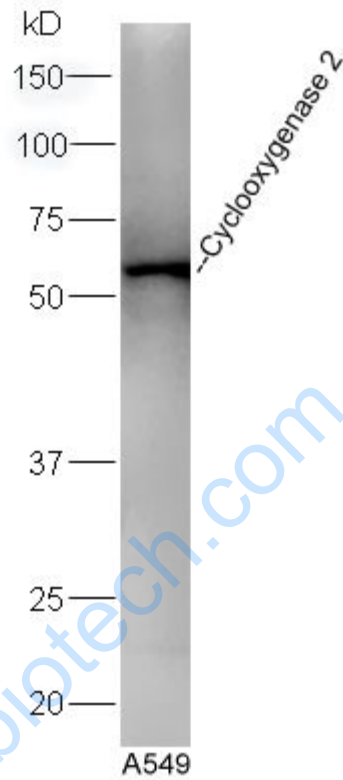
Sample: Brain (Mouse) Lysate at 30 ug

Primary: Anti- Cyclooxygenase 2 (SL0732R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL0732R) at 1/5000 dilution

Predicted band size: 65 kD

Observed band size: 62 kD



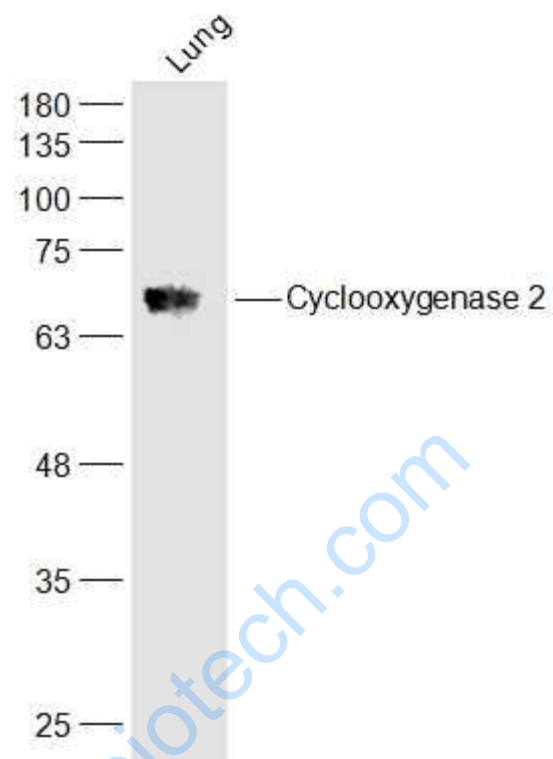
Sample: A549 Cell Lysate at 30 ug

Primary: Anti- Cyclooxygenase 2 (SL0732R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL0732R) at 1/5000 dilution

Predicted band size: 65 kD

Observed band size: 62 kD



Sample:

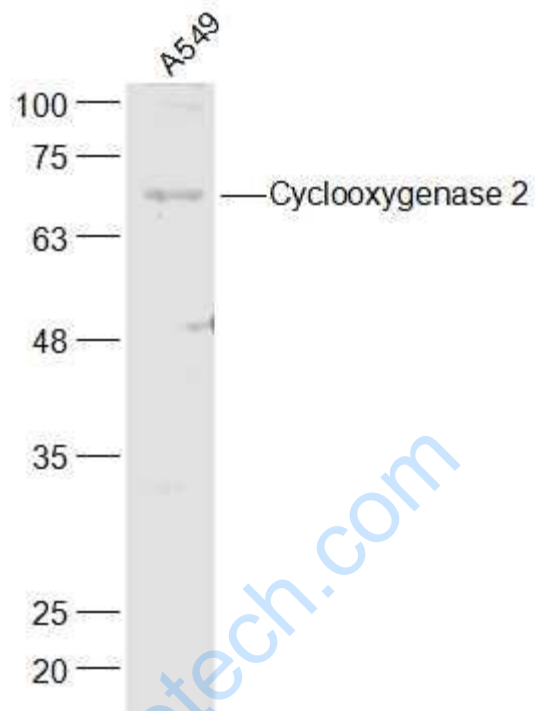
Lung (Mouse) Lysate at 40 ug

Primary: Anti-Cyclooxygenase 2 (SL0732R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 65 kD

Observed band size: 65 kD



Sample:

A549(Human) Cell Lysate at 30 ug

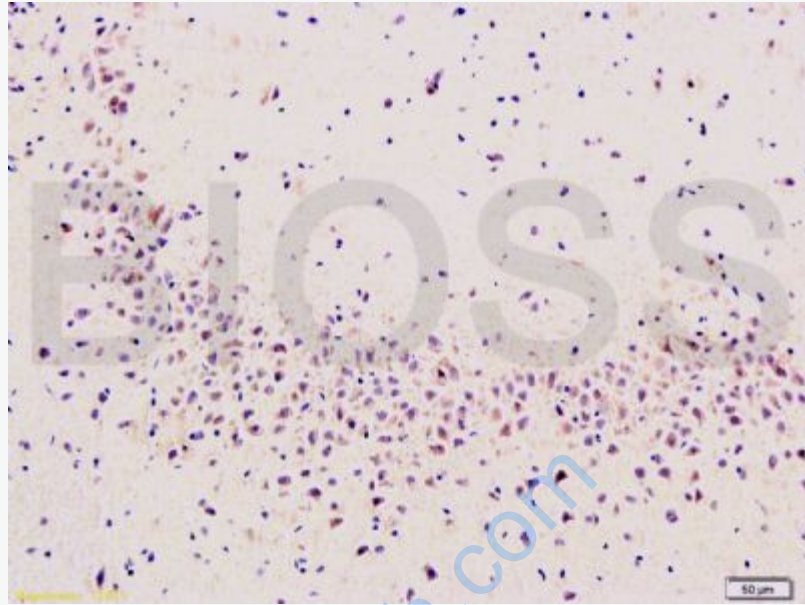
Primary: Anti-Cyclooxygenase 2 (SL0732R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

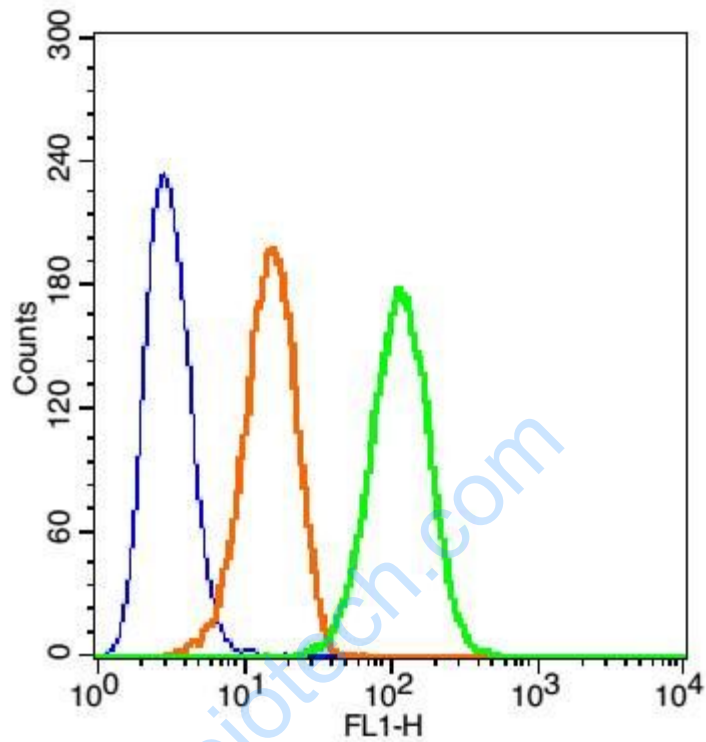
Predicted band size: 65 kD

Observed band size: 70 kD





Tissue/cell: rat brain; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°Cfor 20 min; Incubation: Anti-Cyclooxygenase 2 Polyclonal Antibody, Unconjugated(SL0732R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (blue line): HepG2 (blue).

Primary Antibody (green line): Rabbit Anti-Cyclooxygenase 2/FITC Conjugated antibody (SL0732R)

Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG-FITC .

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature.Acquisition of 20,000 events was

	performed.
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