



Rabbit Anti-Cyclooxygenase 1 antibody

SL0582R

Product Name:	Cyclooxygenase 1
Chinese Name:	前列腺素氧化环化酶1抗体
Alias:	Cyclooxygenase-1; COX-1; COX 1; COX1; Cyclooxygenase1; Prostaglandin-endoperoxide synthase-1; prostaglandin-endoperoxide synthase 1; PTGS-1; Prostaglandin G/H synthase 1 precursor; prostaglandin G/H synthase 1 isoform 1 precursor; Prostaglandin H2 synthase 1; PGH synthase 1; PGHS-1; PHS 1; PGH1 HUMAN; PTGS1; Prostaglandin G/H synthase 1 precursor.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	63kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cyclooxygenase 1:151-250/599
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	This is one of two genes encoding similar enzymes that catalyze the conversion of arachinodate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. The

protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2012].

Function:

May play an important role in regulating or promoting cell proliferation in some normal and neoplastically transformed cells.

Subunit:

Homodimer.

Subcellular Location:

Microsome membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein.

Similarity:

Belongs to the prostaglandin G/H synthase family.
Contains 1 EGF-like domain.

SWISS:

Q63921

Gene ID:

5742

Database links:

[Entrez Gene: 5742](#)Human

[Entrez Gene: 19224](#)Mouse

[Entrez Gene: 24693](#)Rat

[Omin: 176805](#)Human

[SwissProt: P23219](#)Human

[SwissProt: P22437](#)Mouse

[SwissProt: Q63921](#)Rat

[Unigene: 201978](#)Human

[Unigene: 275434](#)Mouse

[Unigene: 44404](#)Rat

Important Note:

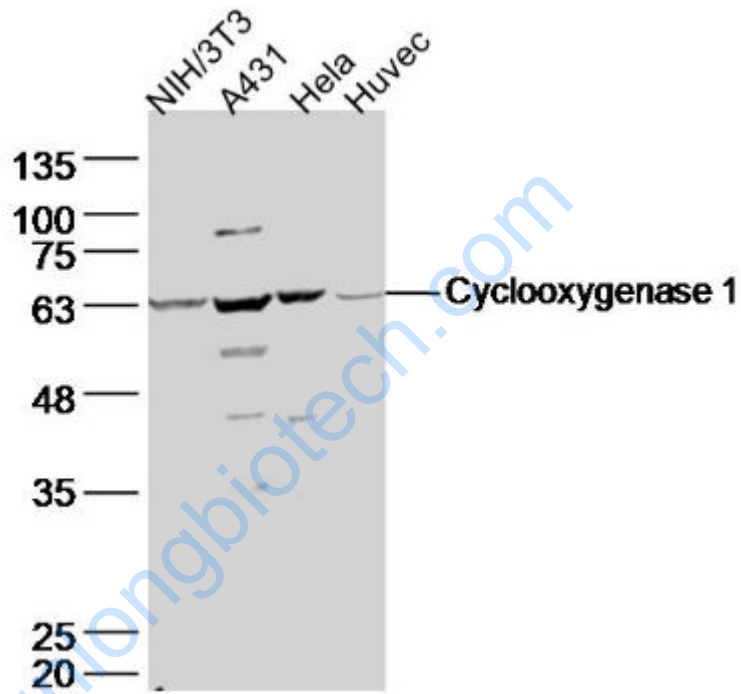
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Synthesis and Degradation (Synthesis and Degradation)

COX1 前列腺素氧化环化酶-

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COX1表达，它也参与前列腺素的合成。

Picture:



Sample:

NIH/3T3(Mouse) Cell Lysate at 30 ug

A431(Human) Cell Lysate at 30 ug

Hela(Human) Cell Lysate at 30 ug

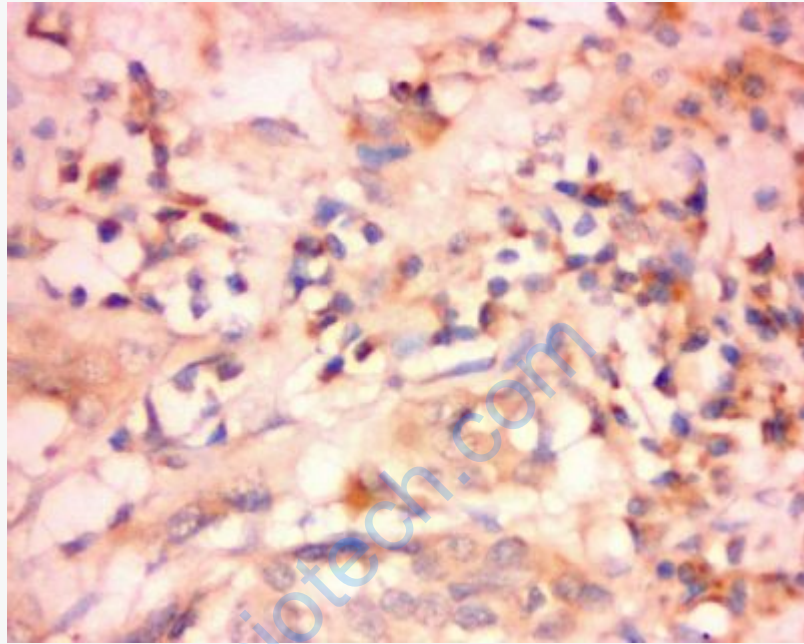
Huvec(Human) Cell Lysate at 30 ug

Primary: Anti-Cyclooxygenase 1 (SL0582R) at 1/300 dilution

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

Predicted band size: 63 kD

Observed band size: 63 kD



Tissue/cell: human laryngo carcinoma; 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°C for 20 min;

Incubation: Anti-COX-1 Polyclonal Antibody, Unconjugated(SL0582R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining