

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. |
| Research Area | Tumour Cardiovascular immunology Signal transduction Synthesis and Degradation |
| Immunogen Species | Rabbit |
| Clonality | Polyclonal |
| React Species | Human, Mouse, (predicted: Rat, Dog, Pig, Cow, Sheep,) WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair) |
| Applications | not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Theoretical molecular weight | 63kDa |
| Cellular localization | cytoplasmic The cell membrane |
| Form | 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 |
| Buffer Solution | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| Storage | Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |

Attention

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

PubMed

[PubMed](#)

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.

Product Detail

Contains 1 EGF-like domain.

SWISS:

Q63921

Gene ID:

5742

Database links:

[Entrez Gene: 5742](#) Human

[Entrez Gene: 19224](#) Mouse

[Entrez Gene: 24693](#) Rat

[Omim: 176805](#) Human

[SwissProt: P23219](#) Human

[SwissProt: P22437](#) Mouse

[SwissProt: Q63921](#) Rat

[Unigene: 201978](#) Human

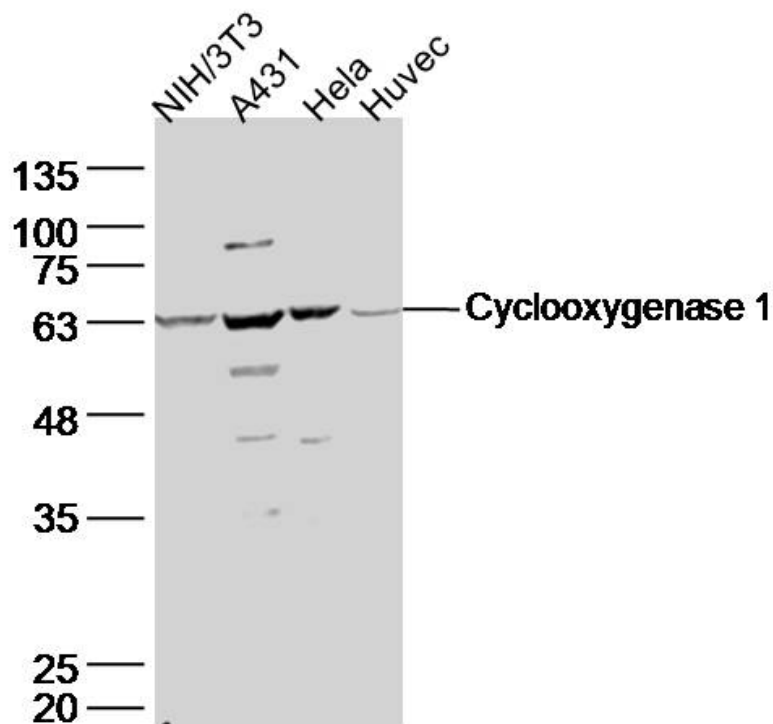
[Unigene: 275434](#) Mouse

[Unigene: 44404](#) Rat

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。

Product
Picture



Sample:

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

A431(Human) Cell Lysate at 30 ug

HeLa(Human) Cell Lysate at 30 ug

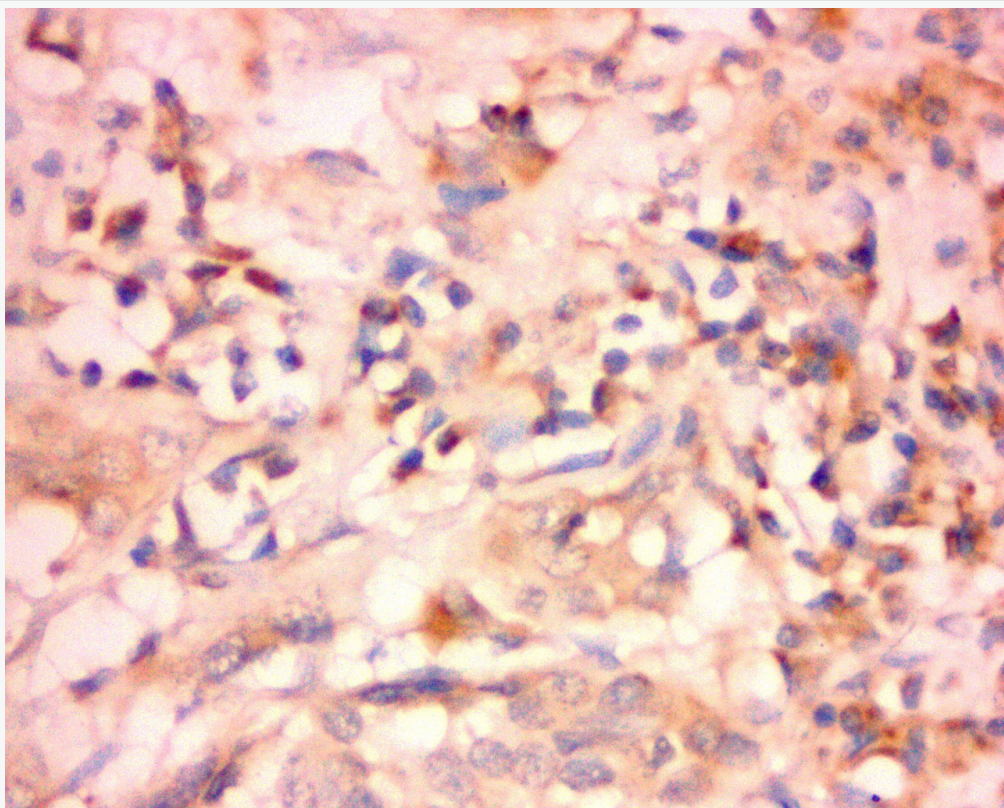
Huvec(Human) Cell Lysate at 30 ug

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 (1M, 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