SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Cyclooxygenase 1 antibody

Catalog Number: SL22457R

FOR RESEARCH USE ONLY

[DATASHEET]

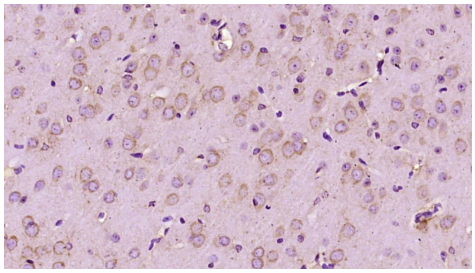
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Cyclooxygenase 1
Immunogen:	KLH conjugated synthetic peptide derived from human Cyclooxygenase 1 : 101-200/599
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 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.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	63kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	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.

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

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	Contains 1 EGF-like domain. **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 prostaglandin-endoperoxide synthase is one of the key enzymes in prostaglandin synthesis and is an inducible enzyme. It participates in the cellular response to growth factors, tumor-promoting factors, and cell factors, all of which can induce COX1 expression. It is also involved in prostaglandin synthesis.

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cyclooxygenase 1) Polyclonal Antibody, Unconjugated (SL22457R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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