

COX1 Polyclonal Antibody

Catalog No: YN5625

Reactivity: Human

Applications: WB

Target: COX1

Fields: >>Arachidonic acid metabolism;>>Metabolic pathways;>>Platelet

activation;>>Serotonergic synapse;>>Regulation of lipolysis in adipocytes

Gene Name: PTGS1

Protein Name: Prostaglandin G/H synthase 1

P23219

P22437

Human Gene Id: 5742

Human Swiss Prot

No:

Mouse Gene Id: 19224

Mouse Swiss Prot

No:

Rat Gene Id: 24693

Rat Swiss Prot No: Q63921

Immunogen: Synthetic Peptide of COX1 AA range: 483-533

Specificity: The antibody detects endogenous COX1 proteins.

Formulation: PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and

50% Glycerol.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:1000

1/3



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 70kD

Cell Pathway: Arachidonic acid metabolism;

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. Based on its ability to function as both a cyclooxygenase and as a peroxidase, the encoded protein has been identified as a moonlighting protein. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014],

Function: catalytic activity: Arachidonate + AH(2) + 2 O(2) = prostaglandin H(2) + A +

H(2)O.,cofactor:Binds 1 heme B (iron-protoporphyrin IX) group per

subunit.,function:May play an important role in regulating or promoting cell

proliferation in some normal and neoplastically transformed

cells.,miscellaneous:This enzyme acts both as a dioxygenase and as a peroxidase.,miscellaneous:This enzyme is the target of nonsteroidal anti-inflammatory drugs such as aspirin.,pathway:Lipid metabolism; prostaglandin

biosynthesis., similarity: Belongs to the prostaglandin G/H synthase family., similarity: Contains 1 EGF-like domain., subunit: Homodimer.,

Subcellular Location:

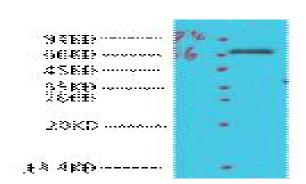
Microsome membrane; Peripheral membrane protein. Endoplasmic reticulum

membrane; Peripheral membrane protein.

Expression : Brain, Lung fibroblast, Platelet,

Products Images





Western blot analysis of Hela, diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000