

## Cyclooxygenase 1 Rabbit pAb

Catalog Number: bs-0582R

Target Protein: Cyclooxygenase 1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Mouse (predicted:Rat, Pig, Sheep, Cow, Dog)

Predicted MW: 63 kDa

Entrez Gene: 5742

Swiss Prot: P23219

Source: KLH conjugated synthetic peptide derived from human Cyclooxygenase 1: 151-250/599.

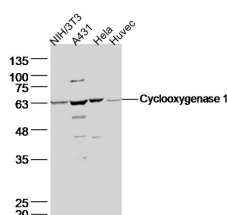
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

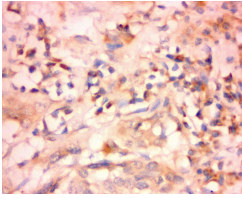
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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].

### VALIDATION IMAGES



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 (bs-0582R) 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(bs-0582R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

## PRODUCT SPECIFIC PUBLICATIONS

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[IF=2.86] Li, Wei, et al. "Combined effects of cyclooxygenase-1 and cyclooxygenase-2 selective inhibitors on ovarian carcinoma in vivo." International journal of molecular sciences 12.1 (2011): 668-681 WB ; ="Mouse" . 21340007

[IF=2.38] Hu, Ruiqi, et al. "The expression of prostaglandin-E2 and its receptor in the oviduct of Chinese brown frog (Rana dybowskii)." Prostaglandins & Other Lipid Mediators (2016). IHC ; ="Others" . 27246901

[IF=2.253] Wang Y et al. Seasonal expressions of COX-1, COX-2 and EP4 in the uteri of the wild Daurian ground squirrels (Spermophilus dauricus). Prostaglandins Other Lipid Mediat. 2019 Aug;143:106343. IHC,WB ; squirrel . 31195125

[IF=2.253] Chen Z et al. Seasonal expressions of prostaglandin E synthases and receptors in the prostate of the wild ground squirrel (Spermophilus dauricus). Prostaglandins and Other Lipid Mediators 148 (2020) 106412. IHC ; squirrel .  
doi:10.1016/j.prostaglandins.2020.106412