

AP00117PU-N

Polyclonal Antibody to Cyclooxygenase 1 - Aff - Purified

Alternate names:

COX-1, COX1, Cyclooxygenase-1, PGH synthase 1, PGHS-1, PTGS1, Prostaglandin G/H synthase 1, Prostaglandin H2 synthase 1, Prostaglandin-endoperoxide synthase 1

Quantity:

0.1 mg

Concentration:

0.2 mg/ml

Background:

COX proteins are membrane-associated heme proteins that have cyclooxygenase and peroxidase activities. These enzymes are targets of NSAID (Nonsteroidal anti-inflammatory drugs) such as aspirin. Prostaglandins (PGs) formed by the enzymatic activity of COX-1 are primarily involved in the regulation of homeostatic functions throughout the body, whereas PGs formed by COX-2 primarily mediate pain, fever, and inflammation. COX-1 is constitutively expressed, with particularly high expression in gastrointestinal tissues. COX-2 is induced by cytokines and mitogens and is likely to play a role in inflammatory diseases such as rheumatoid arthritis.

Uniprot ID:

[P23219](#)

NCBI:

[NP_000953.2](#)

GenelD:

[5742](#)

Host:

Rabbit

Immunogen:

Synthetic peptide corresponding to residues surrounding amino acids 586 of mouse Cox-1

Format:

State: Liquid purified Ig

Purification: Immunoaffinity purified

Buffer System: PBS containing 50% glycerol, 1% BSA, and 0.02% sodium azide

Applications:

Western Blot: 1-4 µg/ml.

Immunoprecipitation.

Immunohistochemistry.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

The antibody recognizes 70 kDa COX-1. It does not cross-react with COX-2.

Species: Human, Mouse, Rat.

Other species not tested.

Storage:

Store the antibody undiluted at -20°C or for long term storage (in aliquots) at -70°C.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.