

Cox-1 Polyclonal Antibody

CATALOG NO: 3361-30T 30 µg (Trial size)
3361-100 100 µg

HOST: Rabbit

IMMUNOGEN: Synthetic peptide corresponding to residues surrounding amino acids 586 of mouse Cox-1 (ID# 243-244).

FORMULATION:

0.2 mg/ml immunoaffinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% sodium azide.

SPECIES REACTIVITY: Human, Mouse, Rat

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION:

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.

SPECIFICITY:

The antibody recognizes 70 kDa COX-1 of human, mouse and rat origins. It does not cross-react with COX-2.

APPLICATION:

The antibody can be used for Western blotting (1-4 µg/ml), immunoprecipitation and Immunohistochemistry (5 µg/ml). However, the optimal concentrations should be determined individually.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- COX-1 Blocking Peptide (**Cat. No. 3361BP-50**)
- COX-2 Antibody (**Cat. No. 3362R-100**)
- COX-2 Blocking Peptide (**Cat. No. 3362RBP-50**)
- COX-3 Antibody (**Cat. No. 3687-100**)
- COX-3 Blocking Peptide (**Cat. No. 3687BP-50**)
- COX-4 Antibody (**Cat. No. 3638-100**)
- COX-4 Blocking Peptide (**Cat. No. 3638BP-50**)