

**AP00332PU-N****Polyclonal Antibody to COX3 - Aff - Purified****Alternate names:**

COX-3, Cyclooxygenase 3

**Quantity:**

0.1 mg

**Concentration:**

0.5 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. In rodents and humans, COX-3 encodes proteins with completely different amino acid sequences than COX-1 or COX-2 and without COX activity. It has been suggested COX-3 as the key to unlocking the mystery of the mechanism of action of acetaminophen.

**Host:**

Rabbit

**Immunogen:**

Synthetic peptide mapping to the N-terminus of mouse Cox-3

**Format:****State:** Liquid purified Ig**Purification:** Affinity purified**Buffer System:** PBS containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal**Applications:**

Western Blot: 0.5-4 µg/ml.

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

**Specificity:**

This antibody detects Cox-3.

**Species:** Mouse.

Other species not tested.

**Add. Information:**

Blocking peptide (AP00332CP-N) is available separately.

**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.

**Pictures:**

Western blot analysis of Cox-3 with mouse small intestine tissue lysate.

