COX-2 (human) Polyclonal Antibody

Item No. 160107  •  Batch No. XXXXXX

Contents: This vial contains 100-500 µg of affinity-purified IgG (batch specific).
Synonyms: Cyclooxygenase 2 Polyclonal Antibody, Prostaglandin H Synthase 2 Polyclonal Antibody
Antigen: The COX-2 polyclonal antibody was raised against a peptide corresponding to amino acids 567-599 of human COX-2 (SVPDPELIKVTINASSRSSGLDDINPTVLLKE).1,2
Host: Rabbit
Cross-reactivity: (+) Human, mouse, and ovine COX-2; (-) COX-1 (all species)
Stability: ≥2 years at -20°C
Application: Western blot (WB); the recommended starting dilution for WB is batch specific. Other applications were not attempted and therefore optimal working dilutions should be determined empirically
Concentration: Varies by batch, from 0.2-1.0 mg/ml (100-500 µg/vial).

Laboratory Procedures
This vial contains rabbit IgG raised against a BSA-conjugated peptide from human COX-2. BSA reactive polyclonal antibodies were removed by affinity chromatography. For long term storage, we suggest the antibody be stored as supplied at -20°C; it will be stable for at least two years. For immunoblotting experiments, dilute 50 µl of the antibody to 10 ml with any buffer suitable for your experiment. For other applications the working concentration of the antibody must be determined empirically.

COX-2 has been cloned from a variety of species including human, rat, and sheep and has a molecular weight of 72 kDa.2-5 COX-2 from these species are approximately 90% identical at the amino acid level, whereas the homology between COX-1 and COX-2 is only about 60%. Expression of COX-2 is regulated by growth factors, tumor promoters, bacterial endotoxin and cytokines, including IL-1β.6,7

References

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