Product Information

COX-1 Monoclonal FITC Antibody (Clone CX111)
Item No. 160111

Synonyms: Cyclooxygenase 1; Prostaglandin H Synthase 1
Contents: This vial contains 250 μg IgG in 500 μl PBS, pH 7.2, containing 50% glycerol, 0.5 mg/ml BSA, and 0.02% NaN₃
Host: Mouse, clone CX111
Antigen: Purified ovine COX-1
Cross-reactivity: (+) Ovine, rat, mouse, human, and bovine COX-1, human COX-2 (5%), ovine COX-2 (50%); (-) mouse COX-2
Stability: ≥2 years at 4°C
Application: Flow cytometry

Laboratory Procedures
This vial contains IgG against ovine seminal vesicle COX-1. This antibody has been covalently linked to fluorescein (via isothiocyanate) to provide a fluorescent tag on the antibody. A secondary antibody is not needed for visualization of the antigen-antibody complex. For long term storage, we suggest the antibody be stored as supplied at 4°C; it will be stable for at least two years. If the antibody cannot be used within two weeks, it should be aliquoted into smaller vials (10 μl per vial works well) and stored at 4°C. For flow cytometry experiments, use 1-5 μg of the reconstituted antibody per 10⁶ cells. For other applications, the working concentration of the antibody must be determined empirically.

COX-1 catalyzes the first step in the biosynthesis of prostaglandins, thromboxanes, and prostacyclins: the conversion of arachidonic acid to prostaglandin H₂. COX-1 is constitutively expressed in almost all animal tissues and is involved in the homeostatic role of eicosanoids.¹ ²

COX-1 is a 70 kDa protein which has been cloned from a variety of species including human, mouse, rat, and sheep.³ ⁶ COX-1 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%.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/160111

WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

MATERIAL SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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