Product Name: COX2 (15D12) Rabbit Monoclonal Antibody
Catalog #: AMRe09271

Summary

Production Name	COX2 (15D12) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,IHC-P,ICC/IF,IP,IF-P
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	PTGS2
Alternative Names	PTGS2,COX2,Prostaglandin G/H synthase 2,Cyclooxygenase-2,COX-2,PHS II,Prostaglandin H2 synthase 2,PGH synthase 2,PGHS-2,Prostaglandin-endoperoxide synthase 2
Gene ID	5743.0
SwissProt ID	P35354.

Application

Dilution Ratio	WB 1:1000, IHC-P/IF-P 1:100-1:1000, ICC/IF 1:50-1:200, IP 1:20-1:100
Molecular Weight	69kDa

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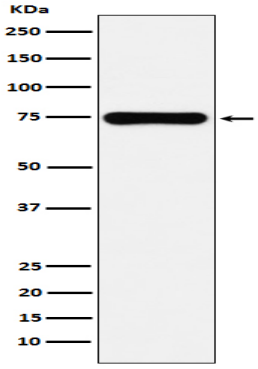
Background

Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis. Constitutively expressed in some tissues in physiological conditions, such as the endothelium, kidney and brain, and in pathological conditions, such as in cancer. PTGS2 is responsible for production of inflammatory prostaglandins. Up-regulation of PTGS2 is also associated with increased cell adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis. In cancer cells, PTGS2 is a key step in the production of prostaglandin E2 (PGE2), which plays important roles in modulating motility, proliferation and resistance to apoptosis. Dual cyclooxygenase and peroxidase in the biosynthesis pathway of prostanoids, a class of C20 oxylipins mainly derived from arachidonate, with a particular role in the inflammatory response.

Research Area

Image Data



Western blot analysis of Cox2 expression in A549 cell lysate.

Note

For research use only.