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COX-2
Rabbit Monoclonal antibody(Mab)
Catalog # AD80426

Specification

COX-2 - Product info

Application	**IHC-P**
Primary Accession	P35354
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Monoclonal**
Calculated MW	**68996**

COX-2 - Additional info

Gene ID	**5743**
Gene Name	**PTGS2**

Other Names
Prostaglandin G/H synthase 2, 1.14.99.1, Cyclooxygenase-2, COX-2, PHS II, Prostaglandin H2 synthase 2, PGH synthase 2, PGHS-2, Prostaglandin-endoperoxide synthase 2, PTGS2 (HGNC:9605)

Dilution
IHC-P~~Ready-to-use

Storage
Maintain refrigerated at 2-8°C

Precautions	**COX-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**

COX-2 - Protein Information

Name PTGS2 (HGNC:9605)

Synonyms	**COX2**
Function	**Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis (PubMed:26859324, PubMed:27226593). 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**

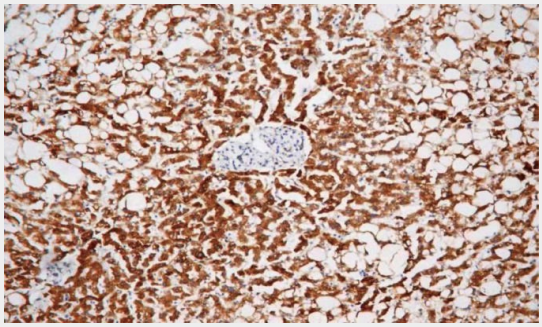
	adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis. In cancer cells, PTGS2 is a key step in the production of prostaglandin E2 (PGE2), which plays important roles in modulating motility, proliferation and resistance to apoptosis.
Cellular Location	**Microsome membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein**

COX-2 - Protocols

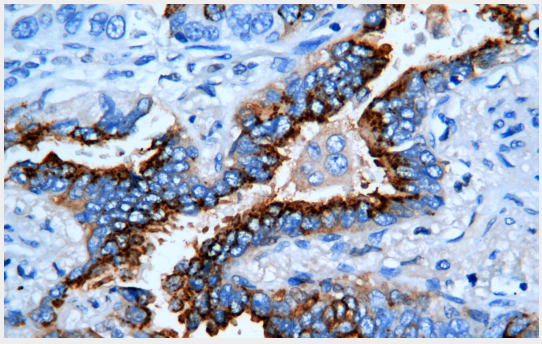
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

COX-2 - Images



Liver



Immunohistochemical analysis of paraffin-embedded human liver tissue using AD80426 performed on the Abcarta® FAIP-30 Fully automated IHC platform.Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(Ready-to-use) for 15 min at room temperature. AmpSeeTM Detection Systems□Abcepta:AR005□ was used as the secondary

antibody.