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COX2 Monoclonal Antibody(3D4)

Catalog No	YP-Ab-02376
Isotype	lgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF
Gene Name	PTGS2
Protein Name	Prostaglandin G/H synthase 2
Immunogen	Synthetic Peptide of COX2
Specificity	The antibody detects endogenouse COX2 proteins.
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	IHC: 1:200. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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
Observed Band	70kD
Cell Pathway	Microsome membrane ; Peripheral membrane protein. Endoplasmic reticulum membrane ; Peripheral membrane protein. Nucleus inner membrane ; Peripheral membrane protein. Nucleus outer membrane ; Peripheral membrane protein. Detected on the lumenal side of the endoplasmic reticulum and nuclear envelope.
Tissue Specificity	Endothelial cell, Epidermal keratinocytes in primary culture, Lung, Pe
Function	catalytic activity:Arachidonate + AH(2) + 2 O(2) = prostaglandin H(2) + A + H(2)O.,cofactor:Binds 1 heme B (iron-protoporphyrin IX) group per subunit.,disease:Likely to play a role in inflammatory diseases such as rheumatoid arthritis.,function:May have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity.,induction:By cytokines and mitogens.,miscellaneous:This enzyme acts both as a dioxygenase and as a peroxidase.,miscellaneous:This enzyme is the target of nonsteroidal anti-inflammatory drugs such as aspirin.,pathway:Lipid metabolism; prostaglandin biosynthesis.,similarity:Belongs to the prostaglandin G/H synthase family.,similarity:Contains 1 EGF-like domain.,subunit:Homodimer.,

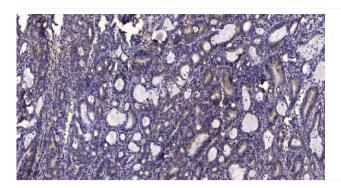


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BackgroundProstaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase,
is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase
and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and
an inducible PTGS2, which differ in their regulation of expression and tissue
distribution. This gene encodes the inducible isozyme. It is regulated by specific
stimulatory events, suggesting that it is responsible for the prostanoid
biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq, Feb
2009],matters needing
attentionAvoid repeated freezing and thawing!Usage suggestionsThis product can be used in immunological reaction related experiments. For
more information, please consult technical personnel.

Products Images



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

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