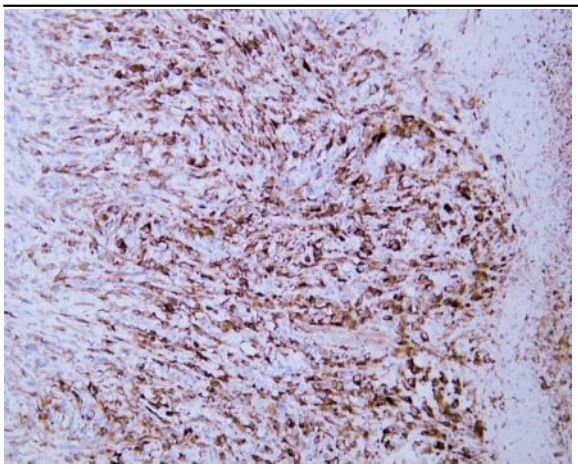
Best Tools for immunology Research

COX-2 (ABT-COX2) mouse mAb

Catalog No :	YM6677
Reactivity :	Human;
Applications :	IHC;ELISA
Target :	COX2
Fields :	>>Arachidonic acid metabolism;>>Metabolic pathways;>>NF-kappa B signaling pathway;>>VEGF signaling pathway;>>C-type lectin receptor signaling pathway;>>IL-17 signaling pathway;>>TNF signaling pathway;>>Retrograde endocannabinoid signaling;>>Serotonergic synapse;>>Ovarian steroidogenesis;>>Oxytocin signaling pathway;>>Regulation of lipolysis in adipocytes;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple diseases;>>Leishmaniasis;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Pathways in cancer;>>Chemical carcinogenesis - DNA adducts;>>MicroRNAs in cancer;>>Small cell lung cancer
Gene Name :	PTGS2 COX2
Protein Name :	Prostaglandin G/H synthase 2 (EC 1.14.99.1) (Cyclooxygenase-2) (COX-2) (PHS II) (Prostaglandin H2 synthase 2) (PGH synthase 2) (PGHS-2) (Prostaglandin-endoperoxide synthase 2)
Human Gene Id :	5743
Human Swiss Prot No :	P35354
Immunogen :	Synthesized peptide derived from human COX-2 (cyclooxygenase-2) AA range: 500-604
Specificity :	The antibody can specifically recognize human COX-2 protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG2b, kappa
Dilution :	IHC 1:200-400. ELISA 1:500-5000

Purification :	The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	69kD
Observed Band :	70kD
Background :	Prostaglandin-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],
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.,
Subcellular Location :	Cytoplasmic
Expression :	Endothelial cell,Epidermal keratinocytes in primary culture,Lung,Pe

Products Images



Human colon carcinoma tissue was stained with Anti-COX-2 (ABT-COX2) Antibody