



ELK Biotechnology

COX-2 (2G1) Mouse mAb

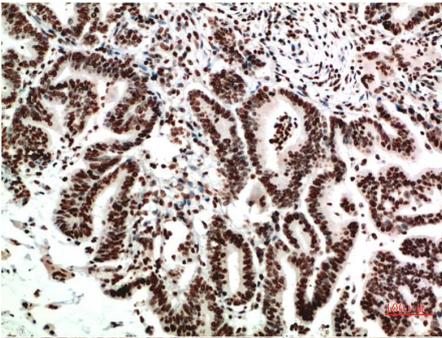
Catalog NO.: EM1339

For research use only.

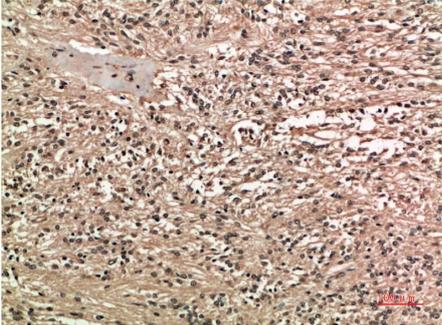
Overview

Product name	COX-2 (2G1) Mouse Monoclonal antibody
Source	Mouse
Applications	IHC
Species reactivity	Human Mouse Rat
Recommended dilutions	Immunohistochemistry:1/100-200 NOTE: Optimal dilutions should be determined by the end user.
Immunogen	Synthetic Peptide
Species	Human
Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.4. Store at -20° C. Avoid repeated freeze-thaw cycles.
Isotype	IgG1
Clonality	Monoclonal
Concentration	1 mg/ml
Observed band	70kDa
GeneID (Human)	5743
Human Swiss-Prot No.	P35354
Cellular localization	Endoplasmic reticulum Membrane Microsome
Alternative Names	PTGS2 antibody Prostaglandin H2 synthase 2 antibody PGHS 2 antibody Glucocorticoid-regulated inflammatory cyclooxygenase antibody
Background	Prostaglandin-endoperoxide synthase 2 also known as cyclooxygenase-2 or simply COX-2 is an enzyme that in humans is encoded by the PTGS2 gene. There are two isozymes of COX encoded by distinct gene products: a constitutive COX-1 (this enzyme) and an inducible COX-2 which differ in their regulation of expression and tissue distribution. The expression of these two transcripts is differentially regulated by relevant cytokines and growth factors. A splice variant of COX-1 termed COX-3 was identified in

the CNS of dogs but does not result in a functional protein in humans. Two smaller COX-1-derived proteins (the partial COX-1 proteins PCOX-1A and PCOX-1B) have also been discovered but their precise roles are yet to be described.



Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using COX-2 (EM1339) Mouse mAb diluted at:200.



Immunohistochemical analysis of paraffin-embedded Human Ovarian Carcinoma Tissue using COX-2 (EM1339) Mouse mAb diluted at:200.