

# COX2 Cyclooxygenase 2 Mouse Monoclonal Antibody(6A12)

## Catalog No: RA10176

### Basic Information

Host species	Mouse
Applications	IHC
Species Cross-Reactivity	H, R, M
Specificity	The COX2 Mouse Monoclonal antibody detects endogenous COX2 proteins.
Recommended dilutions	IHC: 1:100-200 Optimal dilutions should be determined by the end user.

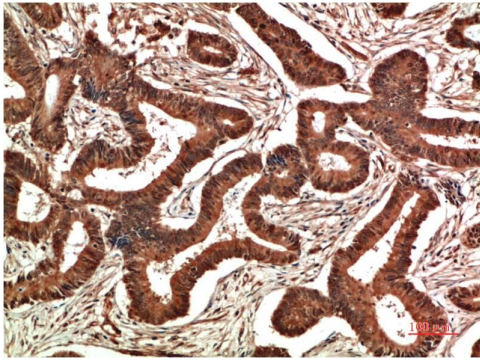
### Applications

Formulation	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/ml
Clonality	Monoclonal

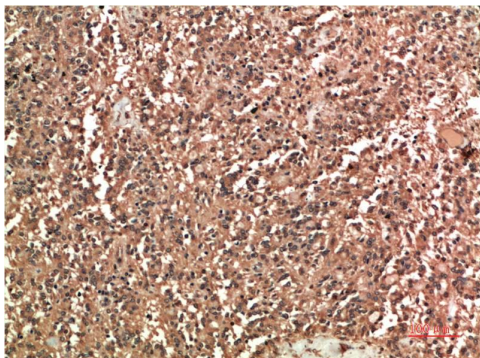
### Background

Alternative Names	PTGS2 antibody, Prostaglandin H2 synthase 2 antibody, PGHS 2 antibody, Glucocorticoid-regulated inflammatory cyclooxygenase antibody
Observed band	70
Human Gene ID	5743
Human Swiss-Prot Number	P35354
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.

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using COX-2 Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Ovarian Carcinoma Tissue using COX-2 Mouse mAb diluted at 1:200.