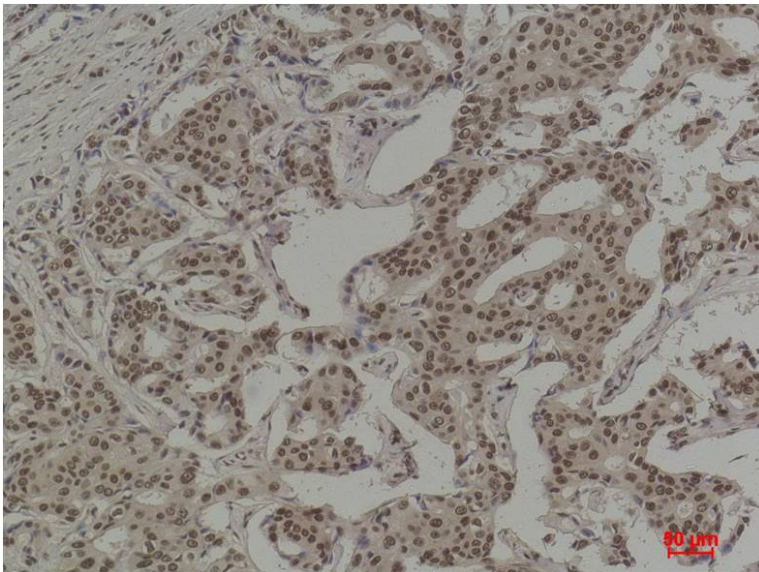


Product name:	COX2/Cyclooxygenase 2 Mouse mAb
Cat number:	ABE1160
Conjugate:	unconjugated
Size:	100 ug
Clone:	Monoclonal
Concentration:	1mg/mL
Host:	Mouse
Isotype:	IgG1
Immunogen:	Synthetic Peptide
Reactivity:	Human, Rat, Mouse
Applications:	IHC 1:100-200
Molecular Weight:	70kDa
Form:	liquid
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.4. Store at -20°C. Avoid repeated freeze-thaw cycles.
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 Breast Carcinoma using COX2/Cyclooxygenase 2 Mouse mAb diluted at 1:100.