

---

**Product Name: Cyclooxygenase 2 Rabbit Monoclonal Antibody****Catalog #: AMRe85450**

For research use only.

**Summary**

<b>Description</b>	Recombinant rabbit monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IP
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in TBS with 0.05% sodium azide,0.05%protective protein and 50% glycerol.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000,IP 1:10-1:20
<b>Molecular Weight</b>	Calculated MW: 69 kDa; Observed MW: 74 kDa

**Antigen Information**

<b>Gene Name</b>	Cyclooxygenase 2
<b>Alternative Names</b>	COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS
<b>Gene ID</b>	5743.0
<b>SwissProt ID</b>	P35354
<b>Immunogen</b>	Recombinant protein of human COX2/Cyclooxygenase 2

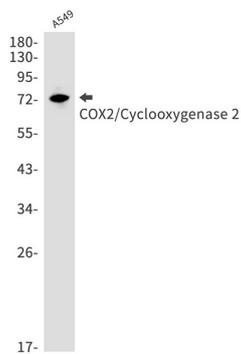
**Background**

Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis. Constitutively expressed in some tissues in physiological conditions, such as the endothelium, kidney and brain, and in pathological conditions, such as in cancer. PTGS2 is responsible for production of inflammatory prostaglandins. Up-regulation of PTGS2 is also associated with increased

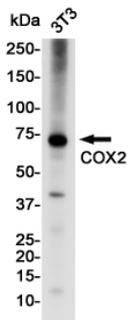
cell adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis. In cancer cells, PTGS2 is a key step in the production of prostaglandin E2 (PGE2), which plays important roles in modulating motility, proliferation and resistance to apoptosis.

## Research Area

## Image Data



Western blot analysis of COX2/Cyclooxygenase 2 in A549 lysates using Cyclooxygenase 2 antibody.



Western blot analysis of COX2/Cyclooxygenase 2 in 3T3 lysates using COX2/Cyclooxygenase 2 antibody.