

Basic Information

Product Name	Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody
Gene Name	PTGS2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human PTGS2, different from the related mouse and rat sequences by eight amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	75 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

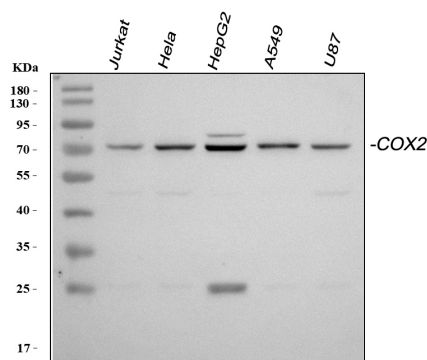
Background Information

Cyclooxygenase (Cox) is the key enzyme in conversion of arachidonic acid to PGs, and two isoforms, Cox-1 and Cox-2, have been identified. Cox-2 gene encodes an inducible prostaglandin synthase enzyme that is overexpressed in adenocarcinomas and other tumors. Deletion of the murine Cox-2 gene in Min mice reduced the incidence of intestinal tumors, suggesting that it is required for tumorigenesis. This gene is localized to sites associated with retinal blood vessels, and plays an important role in blood vessel formation in the retina. And the glucocorticoid receptor suppression of COX-2 is also crucial for curtailing lethal immune activation, and suggests new therapeutic approaches for regulation of T-cell-mediated inflammatory diseases.

Reference

Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody被引用在14文献中。

Selected Validation Data



Western blot analysis of anti- PTGS2 antibody (A00084). The sample well of each lane was loaded with 30ug of sample under reducing conditions.

Lane 1: human Jurkat whole cell lysates,

Lane 2: human HeLa whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: human A549 whole cell lysates,

Lane 5: human U-87 MG whole cell lysates.

Use rabbit anti- PTGS2 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for PTGS2 at approximately 75KD. The expected band size for PTGS2 is at 69KD.