

Basic Information

Product Name	Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody (Clone#OTI4C4)
Gene Name	PTGS2
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Human recombinant protein fragment corresponding to amino acids 18-260 of human PTGS2 (NP_000954) produced in E.coli.
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	67.2 kDa
Dilution Ratios	Western blot (WB):1:2000

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

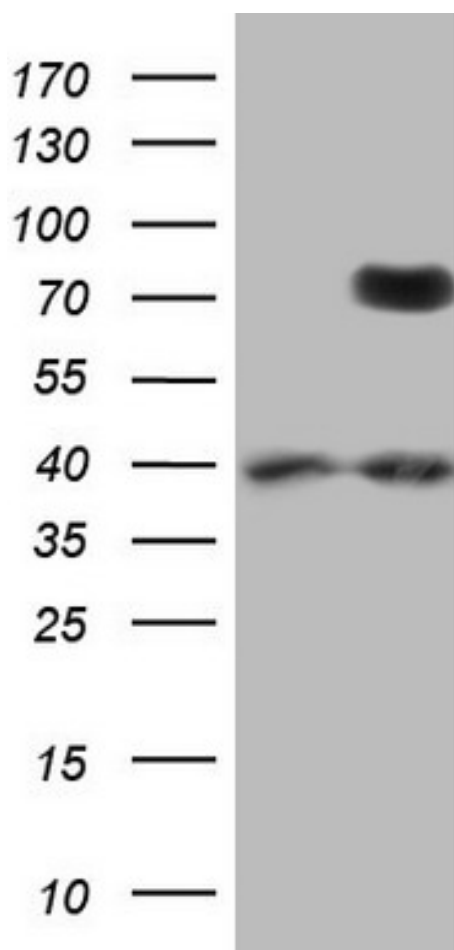
Background Information

Prostaglandin-endoperoxide synthase 2, also known as cyclooxygenase-2 or COX-2, is an enzyme that in humans is encoded by the PTGS2 gene. It is mapped to 1q31.1. Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis.

Reference

Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody (Clone#OTI4C4)被引用在3文献中。

Selected Validation Data



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PTGS2 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PTGS2.