

## Basic Information

<b>Product Name</b>	Anti-COX2/Cyclooxygenase 2/PTGS2 Antibody	
<b>Gene Name</b>	PTGS2	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse	
<b>Tested Application</b>	WB, IHC, FCM, ELISA	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	E.coli-derived human COX2/Cyclooxygenase 2/PTGS2 recombinant protein (Position: A18-L604).	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	75 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

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

## Background Information

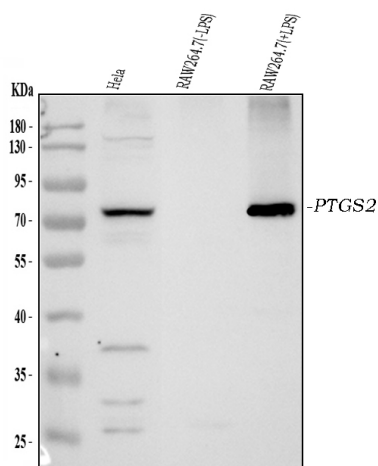
Prostaglandin-endoperoxide synthase 2,also known as cyclooxygenase-2 or COX-2,is an enzyme that in humans is encoded by the PTGS2 gene. It is mapped to 1q31.1. Prostaglandin-endoperoxide synthase (PTGS),also known as cyclooxygenase,is the key enzyme in prostaglandin biosynthesis,and acts both as a dioxygenase 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被引用在10文献中。

## Selected Validation Data



Western blot analysis of COX2/Cyclooxygenase 2/PTGS2 using anti-COX2/Cyclooxygenase 2/PTGS2 antibody (A00084-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

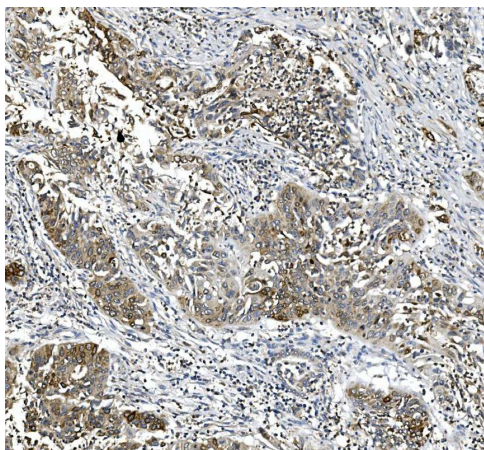
Lane 1: human Hela whole cell lysates,

Lane 2: mouse RAW264.7(-LPS) whole cell lysates,

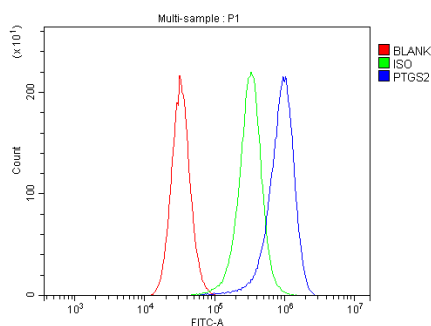
Lane 3: mouse RAW264.7(+LPS) whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-COX2/Cyclooxygenase 2/PTGS2 antigen affinity purified polyclonal antibody (A00084-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for COX2/Cyclooxygenase 2/PTGS2 at approximately 75 kDa. The expected band size for COX2/Cyclooxygenase 2/PTGS2 is at 69 kDa.



IHC analysis of PTGS2 using anti-PTGS2 antibody (A00084-2) . PTGS2 was detected in a paraffin-embedded section of human lung cancer tissue. The tissue section was incubated with rabbit anti-PTGS2 Antibody (A00084-2) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



Flow cytometry analysis of CACO-2 cell(1:100) Fluoro488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG Fluoro488. Unlabelled sample (Red line).