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Datasheet for ABIN2854824

## anti-PTGS2 antibody (C-Term)

### 3 Images

#### Overview

Quantity:	100 µL
Target:	PTGS2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTGS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

#### Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human COX2. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to COX2 (prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)) COX2 antibody [C3], C-term
Purification:	Purified by antigen-affinity chromatography.

#### Target Details

Target:	PTGS2
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## Target Details

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Alternative Name:	prostaglandin-endoperoxide synthase 2 ( <a href="#">PTGS2 Products</a> )
Background:	<p>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.</p> <p>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.</p>
Molecular Weight:	69 kDa
Gene ID:	5743
UniProt:	<a href="#">P35354</a>
Pathways:	<a href="#">Brown Fat Cell Differentiation</a> , <a href="#">Positive Regulation of fat Cell Differentiation</a>

## Application Details

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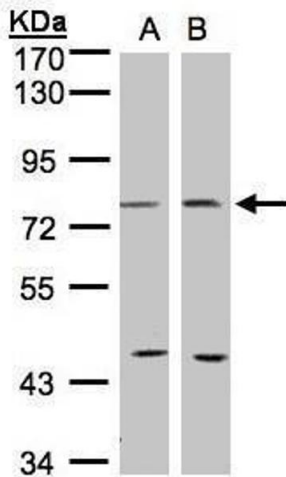
Application Notes:	WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	<p>Positive Control: RAW264.7 (0.1 µg/ml PMA treatment for 16 hr and 1 µg/ml LPS treatment for 24 hr) , THP-1 (100 ng/ml PMA treatment for 16 hr and 1000 ng/ml LPS treatment for 24 hr)</p> <p>Validation: Orthogonal</p>
Restrictions:	For Research Use only

## Handling

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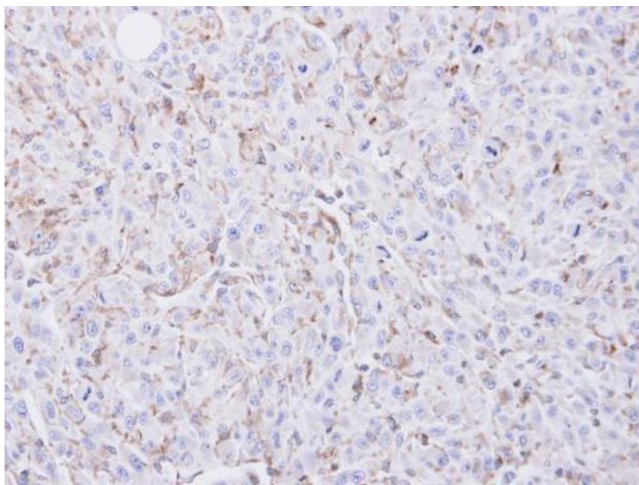
Format:	Liquid
Concentration:	0.42 mg/mL
Buffer:	1XPBS ( pH 7), 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage

(1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



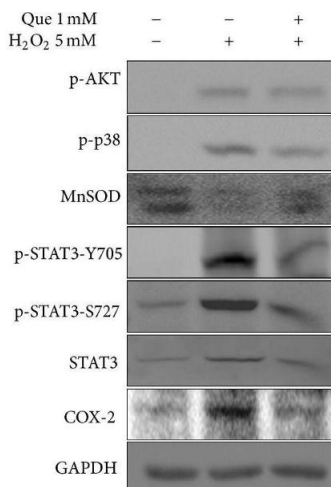
### Western Blotting

**Image 1.** WB Image Sample(30 ug whole cell lysate) A:293T  
B:MOLT4 , 7.5% SDS PAGE antibody diluted at 1:1000



### Immunohistochemistry

**Image 2.** IHC-P Image Immunohistochemical analysis of paraffin-embedded U87 xenograft, using COX2, antibody at 1:100 dilution.



### Western Blotting

**Image 3.** Effects of quercetin on the inflammatory response in H2O2-treated H9C2 cells. The expressed levels of phospho-Akt (Ser-473), phospho-p38 (Tyr-180/182), MnSOD, phospho-STAT3 (Tyr-705), phospho-STAT3 (Ser-727), COX-2, and STAT3 in H9C2 cell were detected by immunoblotting. GAPDH served as a loading control. - figure provided by CiteAb. Source: PMID23573126