

Datasheet for ABIN672471
anti-PTGS2 antibody (AA 501-604)

9 Images

14 Publications

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Overview

Quantity:	100 µL
Target:	PTGS2
Binding Specificity:	AA 501-604
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTGS2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse Cyclooxygenase 2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	PTGS2
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Target Details

Alternative Name:	Cyclooxygenase 2 (PTGS2 Products)
Background:	<p>Synonyms: COX2, Cox-2, PHS-2, Pgbs2, TIS1, PGHS-2, Prostaglandin G/H synthase 2, Cyclooxygenase-2, Glucocorticoid-regulated inflammatory cyclooxygenase, Gripghs, Macrophage activation-associated marker protein P71/73, PES-2, PHS II, Prostaglandin H2 synthase 2, PGH synthase 2, Prostaglandin-endoperoxide synthase 2, TIS1 protein, Ptgs2, Pgbs-b</p> <p>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.</p>
Gene ID:	19225
UniProt:	Q05769
Pathways:	Brown Fat Cell Differentiation , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
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:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Kellermann, Janssen, Münch, Koch, Schneider-Stock, Cesnjevar, Rüffer: "Deep hypothermic circulatory arrest or tepid regional cerebral perfusion: impact on haemodynamics and myocardial integrity in a randomized experimental trial." in: **Interactive cardiovascular and thoracic surgery**, Vol. 26, Issue 4, pp. 667-672, (2018) ([PubMed](#)).

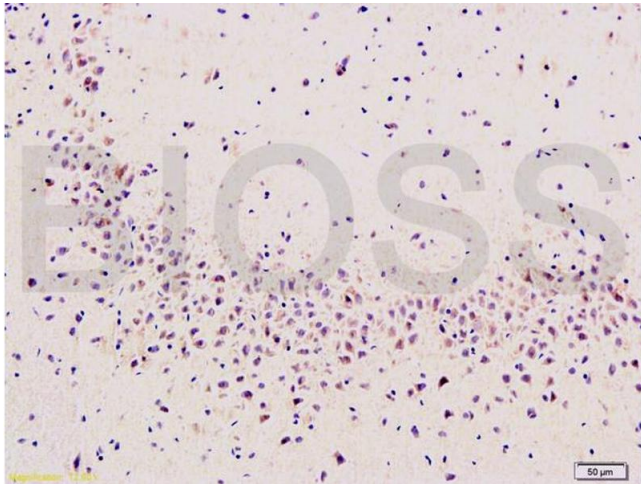
Chen, Hou, Fan, Jin, Wang: "Sonic hedgehog protein regulates fibroblast growth factor 8 expression in metanephric explant culture from BALB/c mice: Possible mechanisms associated with renal morphogenesis." in: **Molecular medicine reports**, Vol. 14, Issue 4, pp. 2929-36, (2017) ([PubMed](#)).

Hu, Xi, Cao, Yang, Liu, Sheng, Han, Yuan, Guo, Weng, Xu: "The expression of prostaglandin-E2 and its receptor in the oviduct of Chinese brown frog (*Rana dybowskii*)." in: **Prostaglandins & other lipid mediators**, Vol. 124, pp. 9-15, (2016) ([PubMed](#)).

Li, Xu, Jiang, Bi, Xu, Han: "Lipopolysaccharide induces inflammation and facilitates lung metastasis in a breast cancer model via the prostaglandin E2-EP2 pathway." in: **Molecular medicine reports**, Vol. 11, Issue 6, pp. 4454-62, (2015) ([PubMed](#)).

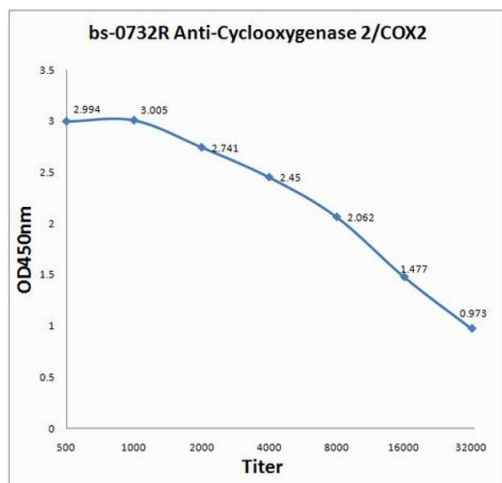
Liu, Duan, Chang, Zhang, Chu, Li, Dai, Mo, Chang: "Sinomenine sensitizes multidrug-resistant colon cancer cells (Caco-2) to doxorubicin by downregulation of MDR-1 expression." in: **PLoS ONE**, Vol. 9, Issue 6, pp. e98560, (2015) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



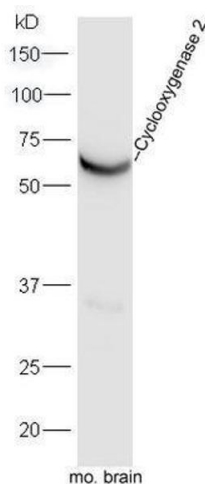
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti Cyclooxygenase 2/COX2 Polyclonal Antibody, Unconjugated (ABIN672471) at 1:200 followed by conjugation to the secondary antibody and DAB staining



ELISA

Image 2. Antigen: 0.2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450



Western Blotting

Image 3. Mouse brain lysates probed with Rabbit Anti-Cyclooxygenase 2 Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN672471.