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Datasheet for ABIN2173482 anti-PTGS2 antibody (AA 301-400)

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Overview

Quantity:	100 μL
Target:	PTGS2
Binding Specificity:	AA 301-400
Reactivity:	Human, Mouse, Rat, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTGS2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

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

Target Details

Target:

PTGS2

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Target Details	
Alternative Name:	Cyclooxygenase 2 (PTGS2 Products)
Background:	Synonyms: COX2, COX-2, PHS-2, PGG/HS, PGHS-2, hCox-2, GRIPGHS, Prostaglandin G/H
	synthase 2, Cyclooxygenase-2, PHS II, Prostaglandin H2 synthase 2, PGH synthase 2,
	Prostaglandin-endoperoxide synthase 2, PTGS2
	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.
Gene ID:	5743
UniProt:	P35354
Pathways:	Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200

ICC 1:100-500

Restrictions: For Research Use only

IF(ICC) 1:50-200

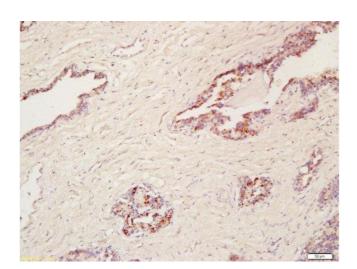
Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

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Handling	
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:	Bi, Zhang, Du, Zhang, Deng, Liu, Zhang: "Peripheral serotonin regulates postoperative intra-
	abdominal adhesion formation in mice." in: Scientific reports , Vol. 7, Issue 1, pp. 10001, (2019) (PubMed).
	Zheng, Liu, Li, Tang, Zhang, Tang: "Lithium posttreatment confers neuroprotection through glycogen synthase kinase-3β inhibition in intracerebral hemorrhage rats." in: Journal of
	neurosurgery, pp. 1-9, (2016) (PubMed).
	Niu, Wang, Li, Mu, Li, Yao, Zhang: "Protective effects of Isofraxidin against lipopolysaccharide- induced acute lung injury in mice." in: International immunopharmacology , Vol. 24, Issue 2, pp.

Images

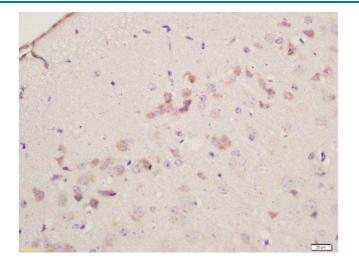


432-9, (2015) (PubMed).

Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin embedded human prostate labeled with Anti-Cyclooxygenase-2 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining

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Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded mouse brain labeled with Anti-Cyclooxygenase-2 Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining

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