

Datasheet for ABIN951767

anti-PTGS2 antibody (Middle Region)



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3 Images

Overview

Quantity:	0.4 mL
Target:	PTGS2
Binding Specificity:	AA 370-399, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTGS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 370-399 amino acids from the Central region of Human Cyclooxygenase 2. Genename: PTGS2
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human Cyclooxygenase 2 (Center).
Purification:	Protein A column, followed by peptide affinity purification

Target Details

Target:	PTGS2
Alternative Name:	Cyclooxygenase 2 (PTGS2 Products)

Target Details

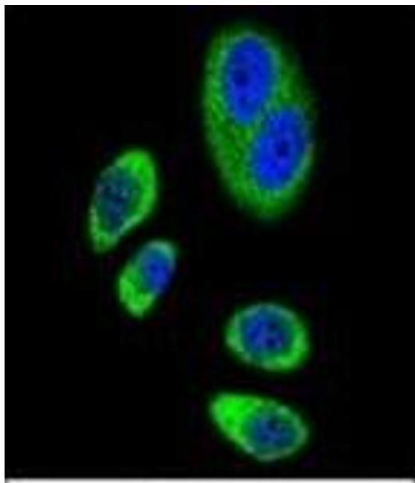
Background:	Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression 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 mitogenesisSynonyms: COX2, Cyclooxygenase-2, PGH synthase 2, PGHS-2, PGHS2, PHS II, PTGS2, Prostaglandin G/H synthase 2, Prostaglandin H2 synthase 2, Prostaglandin-endoperoxide synthase 2
Molecular Weight:	68996 Da
Gene ID:	5743
NCBI Accession:	NP_000954
Pathways:	Brown Fat Cell Differentiation , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

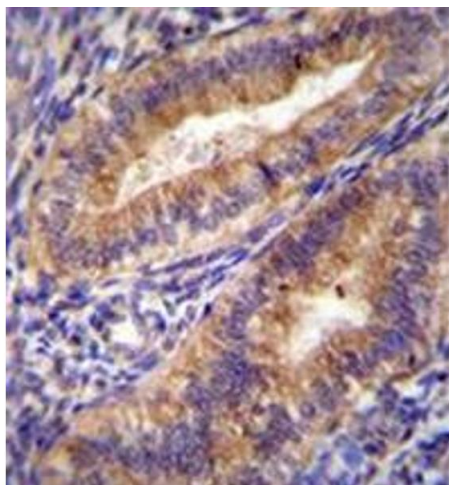
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS, 0.09 % (W/V) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



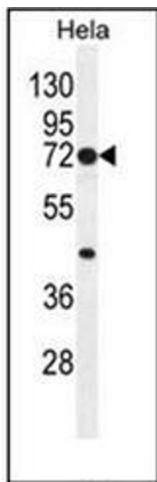
Immunofluorescence

Image 1. Confocal immunofluorescent analysis of Cyclooxygenase 2 Antibody (Center) Cat.-No AP53500PU-N with A549 cell followed by Alexa Fluor®489-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin fixed and paraffin embedded human uterus tissue stained with Cyclooxygenase 2 Antibody (Center) followed by peroxidase conjugation of the secondary antibody and DAB staining



Western Blotting

Image 3. Western blot analysis of Cyclooxygenase 2 Antibody (Center) in HeLa cell line lysates (35ug/lane). This demonstrates the PTGS2 antibody detected the PTGS2 protein (arrow).