Datasheet for ABIN1882120

anti-PTGS1 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	PTGS1
Binding Specificity:	AA 571-599, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTGS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PTGS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 571-599 amino acids from the C-terminal region of human PTGS1.
Clone:	RB17407
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PTGS1
Alternative Name:	PTGS1 (PTGS1 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 PTGS1, which regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. PTGS1 is thought to be involved in cell-cell signaling and maintaining tissue homeostasis.
Molecular Weight:	68686
NCBI Accession:	NP_000953, NP_001258094, NP_001258095, NP_001258297, NP_542158
UniProt:	P23219

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 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.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

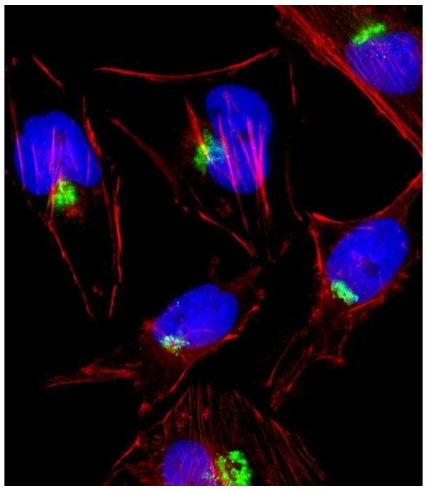
Product cited in:	Carrascal, Ovelleiro, Casas, Gay, Abian: "Phosphorylation analysis of primary human T lymphocytes using sequential IMAC and titanium oxide enrichment." in: **Journal of proteome research**, Vol. 7, Issue 12, pp. 5167-76, (2009) (PubMed). Koulich, Li, DeMartino: "Relative structural and functional roles of multiple deubiquitylating proteins associated with mammalian 26S proteasome." in: **Molecular biology of the cell**, Vol.

Publications

19, Issue 3, pp. 1072-82, (2008) (PubMed).

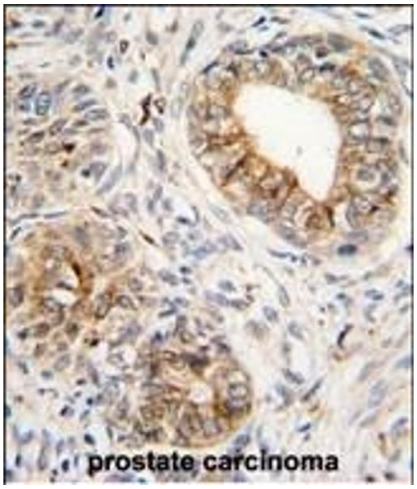
Reuter, Medhurst, Waisfisz, Zhi, Herterich, Hoehn, Gross, Joenje, Hoatlin, Mathew, Huber: "Yeast two-hybrid screens imply involvement of Fanconi anemia proteins in transcription regulation, cell signaling, oxidative metabolism, and cellular transport." in: **Experimental cell research**, Vol. 289, Issue 2, pp. 211-21, (2003) (PubMed).

Images



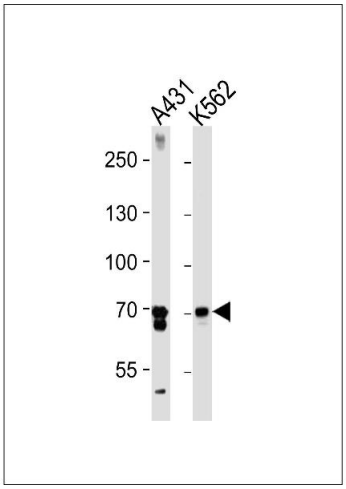
Immunofluorescence

Image 1. Fluorescent image of Hela cell stained with PTGS1 Antibody (C-term) (ABIN1882120 and ABIN2839444). Hela cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with PTGS1 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C).PTGS1 immunoreactivity is localized to Golgi significantly.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with PTGS1 antibody (C-term) (ABIN1882120 and ABIN2839444) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 3. PTGS1 Antibody (C-term) (ABIN1882120 and ABIN2839444) western blot analysis in A431,K562 cell line lysates (35 µg/lane).This demonstrates the PTGS1 antibody detected the PTGS1 protein (arrow).