

Product Name: KD-Validated PTGS1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00360**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 68.7kDa

Antigen Information

Gene Name	PTGS1
Alternative Names	PTGS1; Prostaglandin-Endoperoxide Synthase 1; PGHS-1; COX1; Cyclooxygenase-1; PTGHS;
	Prostaglandin-Endoperoxide Synthase 1 (Prostaglandin G/H Synthase And Cyclooxygenase);
	Prostaglandin G/H Synthase 1; Prostaglandin H2 Synthase 1; PGH Synthase 1; EC 1.14.99.1;
	EC 1.14.99; PGG/HS; PCOX1; PES-1; PGHS1; COX-1; PHS 1; COX3; PHS1
Gene ID	5742.0
SwissProt ID	P23219
Immunogen	A synthesized peptide derived from human PTGS1

Background

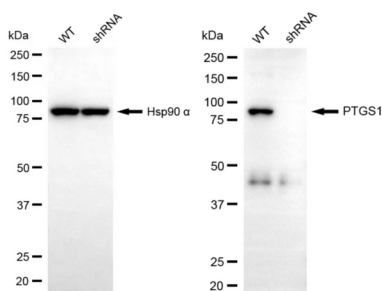
This is one of two genes encoding similar enzymes that catalyze the conversion of arachidonate to prostaglandin. The encoded

protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. Based on its ability to function as both a cyclooxygenase and as a peroxidase, the encoded protein has been identified as a moonlighting protein. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2021]

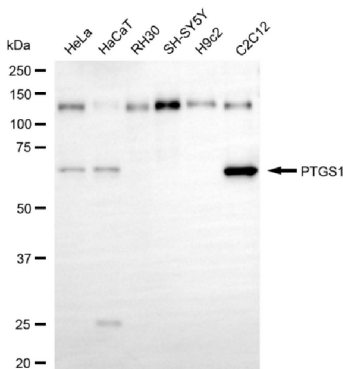
Research Area

Immunology, Cardiovascular, Signal Transduction, Cancer, Metabolism, Neuroscience

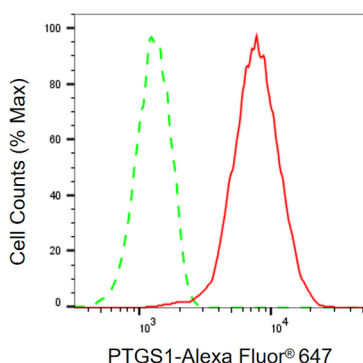
Image Data



Western blotting analysis using PTGS1 antibody (KVA00360). PTGS1 expression in wild-type (WT) and PTGS1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PTGS1 antibody (KVA00360, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PTGS1 antibody (KVA00360). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PTGS1 antibody (KVA00360, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of PTGS1 expression in C2C12 cells using PTGS1 antibody (KVA00360, 1:2,000). Green, isotype control; red, PTGS1.