

Product Name: KD-Validated Prostaglandin E Synthase 3 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb00919

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
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; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 18.7kDa

Antigen Information

Gene Name	PTGES3
Alternative Names	PTGES3; Prostaglandin E Synthase 3; CPGES; TEBP; P23; Prostaglandin E Synthase 3 (Cytosolic); Cytosolic Prostaglandin E2 Synthase; Progesterone Receptor Complex P23; Telomerase-Binding Protein P23; Hsp90 Co-Chaperone; EC 5.3.99.3; Unactive Progesterone Receptor, 23 KD; Cytosolic Prostaglandin E Synthase
Gene ID	10728.0
SwissProt ID	Q15185
Immunogen	A synthesized peptide derived from human p23

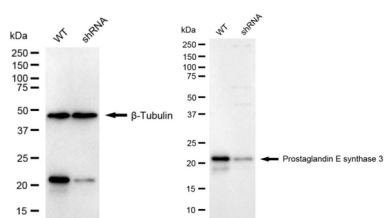
Background

This gene encodes an enzyme that converts prostaglandin endoperoxide H₂ (PGH₂) to prostaglandin E₂ (PGE₂). This protein functions as a co-chaperone with heat shock protein 90 (HSP90), localizing to response elements in DNA and disrupting transcriptional activation complexes. Alternative splicing results in multiple transcript variants. There are multiple pseudogenes of this gene on several different chromosomes. [provided by RefSeq, Feb 2016]

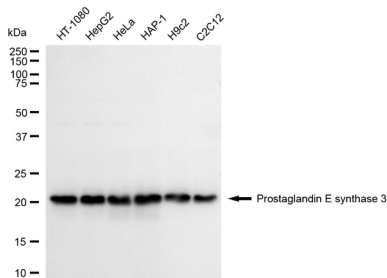
Research Area

Epigenetics and Nuclear Signaling, Signal Transduction, Cancer, Metabolism

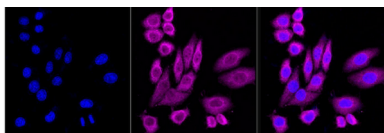
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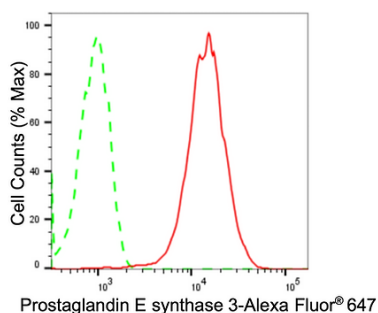
Western blotting analysis using prostaglandin E synthase 3 antibody (KVA00919). Prostaglandin E synthase 3 expression in wild-type (WT) and prostaglandin E synthase 3 (PTGES3) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with prostaglandin E synthase 3 antibody (KVA00919, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Prostaglandin E synthase 3 antibody (KVA00919). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Prostaglandin E synthase 3 antibody (KVA00919, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Prostaglandin E synthase 3 antibody (KVA00919, 1:1,000). Nuclei were stained blue with DAPI; Prostaglandin E synthase 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of Prostaglandin E synthase 3 expression in HepG2 cells using Prostaglandin E synthase 3 antibody (KVA00919, 1:2,000). Green, isotype control; red, Prostaglandin E synthase 3.