10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PTGES3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14751c

Product Information

Application	WB, E
Primary Accession	Q15185
Other Accession	P83868, Q9R0Q7, Q6PWL5, Q3ZBF7, NP_006592.3
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Monkey, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34953
Calculated MW	18697
Antigen Region	45-73

Additional Information

Gene ID	10728
Other Names	Prostaglandin E synthase 3, Cytosolic prostaglandin E2 synthase, cPGES, Hsp90 co-chaperone, Progesterone receptor complex p23, Telomerase-binding protein p23, PTGES3, P23, TEBP
Target/Specificity	This PTGES3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 45-73 amino acids from the Central region of human PTGES3.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PTGES3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTGES3
Synonyms	P23, TEBP

Function	Cytosolic prostaglandin synthase that catalyzes the oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2) (PubMed:10922363). Molecular chaperone that localizes to genomic response elements in a hormone-dependent manner and disrupts receptor-mediated transcriptional activation, by promoting disassembly of transcriptional regulatory complexes (PubMed:11274138, PubMed:12077419). Facilitates HIF alpha proteins hydroxylation via interaction with EGLN1/PHD2, leading to recruit EGLN1/PHD2 to the HSP90 pathway (PubMed:24711448).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q3ZBF7}.

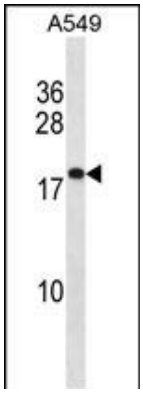
Background

Molecular chaperone that localizes to genomic response elements in a hormone-dependent manner and disrupts receptor-mediated transcriptional activation, by promoting disassembly of transcriptional regulatory complexes.

References

Chen, W., et al. Proc. Natl. Acad. Sci. U.S.A. 107(16):7401-7406(2010)
Lee, J.H., et al. Cancer Lett. 290(1):76-86(2010)
Chadli, A., et al. J. Biol. Chem. 285(6):4224-4231(2010)
Woo, S.H., et al. J. Biol. Chem. 284(45):30871-30880(2009)
Mattila, S., et al. Neuropathology 29(2):156-165(2009)

Images



PTGES3 Antibody (Center) (Cat. #AP14751c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the PTGES3 antibody detected the PTGES3 protein (arrow).