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

PTGR2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12869a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q8N8N7
Other Accession	NP_001139626.1
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32676
Calculated MW	38499
Antigen Region	65-94

Additional Information

Gene ID	145482
Other Names	Prostaglandin reductase 2, PRG-2, 15-oxoprostaglandin 13-reductase, Zinc-binding alcohol dehydrogenase domain-containing protein 1, PTGR2, ZADH1
Target/Specificity	This PTGR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 65-94 amino acids from the N-terminal region of human PTGR2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	PTGR2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTGR2 (HGNC:20149)
Synonyms	ZADH1

Function	Functions as 15-oxo-prostaglandin 13-reductase and acts on 15-keto-PGE1, 15-keto-PGE2, 15-keto-PGE1-alpha and 15-keto-PGE2-alpha with highest activity towards 15-keto-PGE2 (PubMed:19000823). Overexpression represses transcriptional activity of PPARG and inhibits adipocyte differentiation (By similarity).
Cellular Location	Cytoplasm.
Tissue Location	Widely expressed..

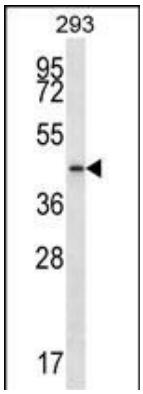
Background

This gene encodes an enzyme involved in the metabolism of prostaglandins. The encoded protein catalyzes the NADPH-dependent conversion of 15-keto-prostaglandin E2 to 15-keto-13,14-dihydro-prostaglandin E2. This protein may also be involved in regulating activation of the peroxisome proliferator-activated receptor. Alternative splicing results in multiple transcript variants.

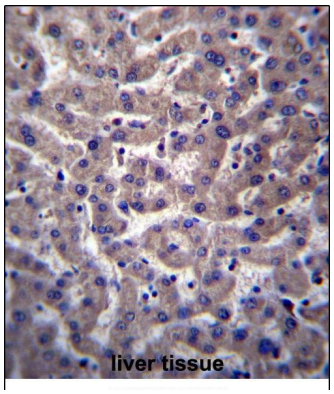
References

Wu, Y.H., et al. Structure 16(11):1714-1723(2008)
Gao, K., et al. Int. J. Oncol. 32(6):1343-1349(2008)
Chou, W.L., et al. J. Biol. Chem. 282(25):18162-18172(2007)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Zhang, L., et al. Cytogenet. Genome Res. 103 (1-2), 79-83 (2003) :

Images



PTGR2 Antibody (N-term) (Cat. #AP12869a) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the PTGR2 antibody detected the PTGR2 protein (arrow).



PTGR2 Antibody (N-term) (Cat. #AP12869a)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PTGR2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.