

PTGFR Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21723c

Product Information

Application	WB, E
Primary Accession	P43088
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53393
Calculated MW	40055

Additional Information

Gene ID	5737
Other Names	Prostaglandin F2-alpha receptor, PGF receptor, PGF2-alpha receptor, Prostanoid FP receptor, PTGFR
Target/Specificity	This PTGFR antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 169-199 amino acids from the Central region of human PTGFR.
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	PTGFR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTGFR
Function	Receptor for prostaglandin F2-alpha (PGF2-alpha). The activity of this receptor is mediated by G proteins which activate a phosphatidylinositol-calcium second messenger system. Initiates luteolysis in the corpus luteum (By similarity). Isoforms 2 to 7 do not bind PGF2-alpha but are proposed to modulate signaling by participating in variant receptor

complexes; heterodimers between isoform 1 and isoform 5 are proposed to be a receptor for prostamides including the synthetic analog bimatoprost.

Cellular Location Cell membrane; Multi-pass membrane protein.

Tissue Location Eye..

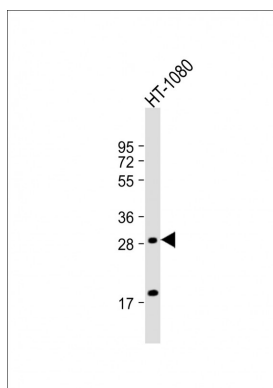
Background

Receptor for prostaglandin F2-alpha (PGF2-alpha). The activity of this receptor is mediated by G proteins which activate a phosphatidylinositol-calcium second messenger system. Initiates luteolysis in the corpus luteum (By similarity). Isoforms 2 to 7 do not bind PGF2-alpha but are proposed to modulate signaling by participating in variant receptor complexes; heterodimers between isoform 1 and isoform 5 are proposed to be a receptor for prostamides including the synthetic analog bimatoprost.

References

Abramovitz M.,et al.J. Biol. Chem. 269:2632-2636(1994).
Kunapuli P.,et al.J. Biol. Chem. 272:27147-27154(1997).
Kopatz S.A.,et al.Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
Vielhauer G.A.,et al.Arch. Biochem. Biophys. 421:175-185(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



Anti-PTGFR Antibody (Center) at 1:2000 dilution + HT-1080 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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