

### **PTGFR Antibody (Center)**

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21723c

# **Specification**

### PTGFR Antibody (Center) - Product Information

Application WB,E
Primary Accession P43088
Reactivity Human
Host Rabbit
Clonality polyclonal
Isotype Rabbit IgG
Calculated MW 40055

# PTGFR Antibody (Center) - 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.

# PTGFR Antibody (Center) - 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** 

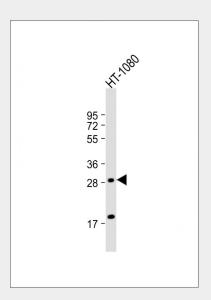
Eye..

## PTGFR Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# PTGFR Antibody (Center) - Images



Anti-PTGFR Antibody (Center) at 1:2000 dilution + HT-1080 whole cell lysate Lysates/proteins at 20  $\mu$ g 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.

### PTGFR Antibody (Center) - 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.

# **PTGFR Antibody (Center) - 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).