

# Prostaglandin D2 Receptor Antibody (Extracellular Domain)

Rabbit Polyclonal Antibody Catalog # ALS10640

## **Specification**

# Prostaglandin D2 Receptor Antibody (Extracellular Domain) - Product Information

Application IHC
Primary Accession O13258
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 40kDa KDa

### Prostaglandin D2 Receptor Antibody (Extracellular Domain) - Additional Information

### **Gene ID 5729**

#### **Other Names**

Prostaglandin D2 receptor, PGD receptor, PGD2 receptor, Prostanoid DP receptor, PTGDR

# Target/Specificity

Human Prostaglandin D2 Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

### **Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

#### **Precautions**

Prostaglandin D2 Receptor Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

# Prostaglandin D2 Receptor Antibody (Extracellular Domain) - Protein Information

# **Name PTGDR**

### **Function**

Receptor for prostaglandin D2 (PGD2). The activity of this receptor is mainly mediated by G(s) proteins that stimulate adenylate cyclase, resulting in an elevation of intracellular cAMP. A mobilization of calcium is also observed, but without formation of inositol 1,4,5-trisphosphate (By similarity). Involved in PLA2G3- dependent maturation of mast cells. PLA2G3 is secreted by immature mast cells and acts on nearby fibroblasts upstream to PTDGS to synthesize PGD2, which in turn promotes mast cell maturation and degranulation via PTGDR (By similarity).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein

#### **Tissue Location**

Expressed in retinal choroid, ciliary epithelium, longitudinal and circular ciliary muscles, iris, small



intestine and platelet membranes.

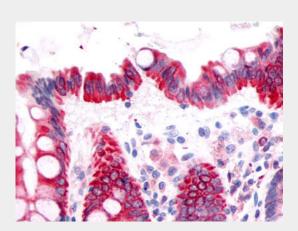
**Volume** 50 μl

# Prostaglandin D2 Receptor Antibody (Extracellular Domain) - Protocols

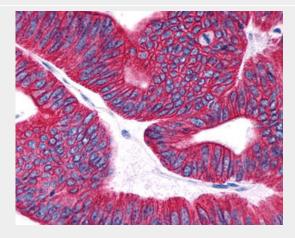
Provided below are standard protocols that you may find useful for product applications.

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

# Prostaglandin D2 Receptor Antibody (Extracellular Domain) - Images



Anti-Prostaglandin D2 Receptor antibody ALS10640 IHC of human colon, epithelium.

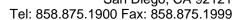


Anti-PTGDR / DP antibody IHC of human Colon, Carcinoma.

## Prostaglandin D2 Receptor Antibody (Extracellular Domain) - Background

Receptor for prostaglandin D2 (PGD2). The activity of this receptor is mainly mediated by G(s) proteins that stimulate adenylate cyclase, resulting in an elevation of intracellular cAMP. A







mobilization of calcium is also observed, but without formation of inositol 1,4,5-trisphosphate (By similarity).

# Prostaglandin D2 Receptor Antibody (Extracellular Domain) - References

Boie Y., et al.J. Biol. Chem. 270:18910-18916(1995). Martin A.L., et al. Submitted (APR-2007) to the EMBL/GenBank/DDBJ databases. Heilig R., et al. Nature 421:601-607(2003). Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Town M.H., et al. Prostaglandins 25:13-28(1983).