

**GPR44 / CRTH2 Antibody (Extracellular Domain)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10673****Specification**

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**GPR44 / CRTH2 Antibody (Extracellular Domain) - Product Information**

Application	IHC
Primary Accession	<a href="#">O9Y5Y4</a>
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43kDa KDa

**GPR44 / CRTH2 Antibody (Extracellular Domain) - Additional Information****Gene ID** 11251**Other Names**

Prostaglandin D2 receptor 2, Chemoattractant receptor-homologous molecule expressed on Th2 cells, G-protein coupled receptor 44, CD294, PTGDR2, CRTH2, DL1R, GPR44

**Target/Specificity**

Human GPR44 / CRTH2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

GPR44 / CRTH2 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPR44 / CRTH2 Antibody (Extracellular Domain) - Protein Information****Name** PTGDR2**Synonyms** CRTH2, DL1R, GPR44**Function**

Receptor for prostaglandin D2 (PGD2). Coupled to the G(i)- protein. Receptor activation may result in pertussis toxin-sensitive decreases in cAMP levels and Ca(2+) mobilization. PI3K signaling is also implicated in mediating PTGDR2 effects. PGD2 induced receptor internalization. CRTH2 internalization can be regulated by diverse kinases such as, PKC, PKA, GRK2, GPRK5/GRK5 and GRK6. Receptor activation is responsible, at least in part, in immune regulation and allergic/inflammation responses.

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Note=Internalized receptors colocalized with

RAB11A.

#### **Tissue Location**

Widespread expression. High expression in stomach, small intestine, heart and thymus. Intermediate expression in colon, spinal cord and peripheral blood and low expression in brain, skeletal muscle and spleen. Expressed also on Th2- and Tc2- type cells, eosinophils and basophils.

#### **Volume**

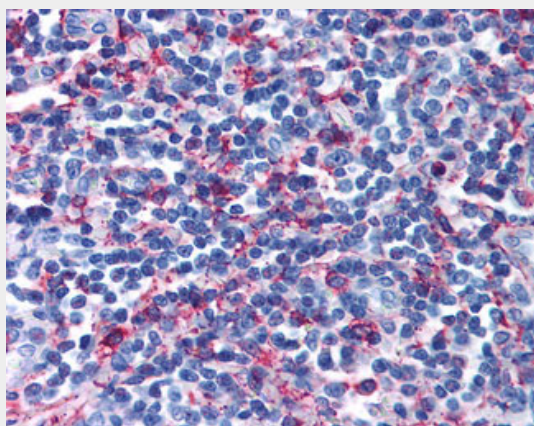
50 µl

### **GPR44 / CRTH2 Antibody (Extracellular Domain) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **GPR44 / CRTH2 Antibody (Extracellular Domain) - Images**



Anti-GPR44 / CRTH2 antibody ALS10673 IHC of human tonsil.

### **GPR44 / CRTH2 Antibody (Extracellular Domain) - Background**

Receptor for prostaglandin D2 (PGD2). Coupled to the G(i)-protein. Receptor activation may result in pertussis toxin- sensitive decreases in cAMP levels and Ca(2+) mobilization. PI3K signaling is also implicated in mediating PTGDR2 effects. PGD2 induced receptor internalization. CRTH2 internalization can be regulated by diverse kinases such as, PKC, PKA, ADRBK1/GRK2, GPRK5/GRK5 and GRK6. Receptor activation is responsible, at least in part, in immune regulation and allergic/inflammation responses.

### **GPR44 / CRTH2 Antibody (Extracellular Domain) - References**

Marchese A.,et al.Genomics 56:12-21(1999).  
Nagata K.,et al.J. Immunol. 162:1278-1286(1999).  
Methner A.,et al.Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.

King M.M.,et al.Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.  
Taylor T.D.,et al.Nature 440:497-500(2006).