

GPR44 / CRTH2 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10050**Specification**

GPR44 / CRTH2 Antibody (C-Terminus) - Product Information

Application	IHC-P, E
Primary Accession	Q9Y5Y4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43kDa KDa
Dilution	IHC-P~~N/A E~~N/A

GPR44 / CRTH2 Antibody (C-Terminus) - 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, except KCNN2 (50%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

GPR44 / CRTH2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR44 / CRTH2 Antibody (C-Terminus) - 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.

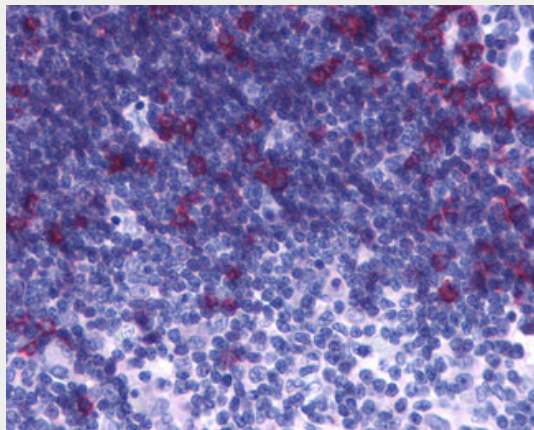
Volume

50 µl

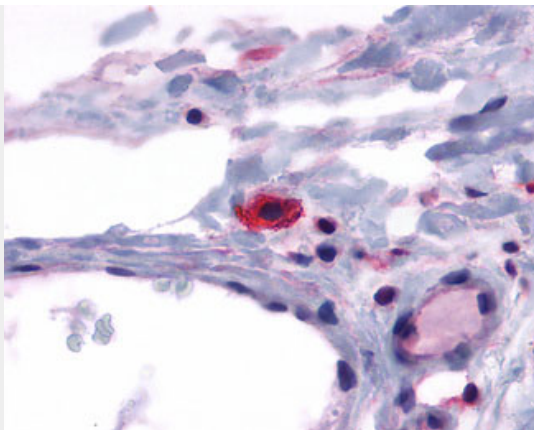
GPR44 / CRTH2 Antibody (C-Terminus) - Protocols

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 (C-Terminus) - Images

Anti-GPR44 / CRTH2 antibody ALS10050 IHC of human thymus.



Anti-GPR44 / CRTH2 antibody IHC of human tonsil mast cell.

GPR44 / CRTH2 Antibody (C-Terminus) - 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 Ca²⁺ 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 (C-Terminus) - References

Marchese A.,et al.Genomics 56:12-21(1999).
Nagata K.,et al.J. Immunol. 162:1278-1286(1999).
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Taylor T.D.,et al.Nature 440:497-500(2006).