10320 Camino Santa Fe, Suite G
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GPR44 / CRTH2 Antibody (N-Terminus)

Rabbit Polyclonal Antibody

Catalog # ALS10672

Specification

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

Application	**IHC, ICC**
Primary Accession	Q9Y5Y4
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**43kDa KDa**

GPR44 / CRTH2 Antibody (N-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.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

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

GPR44 / CRTH2 Antibody (N-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.

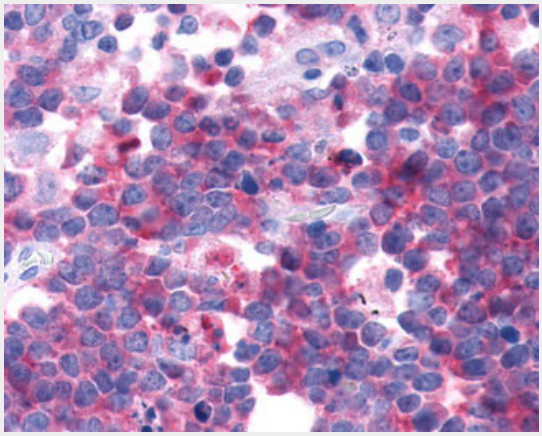
Volume
50 µl

GPR44 / CRTH2 Antibody (N-Terminus) - Protocols

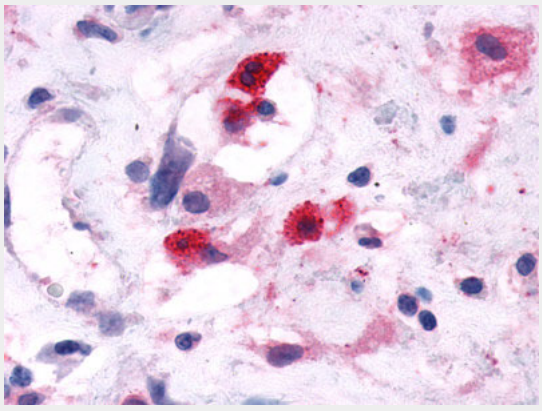
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPR44 / CRTH2 Antibody (N-Terminus) - Images

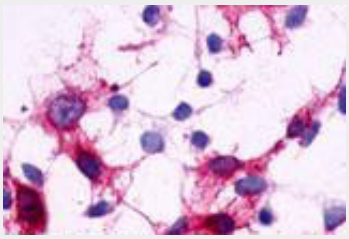


Anti-GPR44 / CRTH2 antibody IHC of human Lymph Node, Non-Hodgkins Lymphoma.



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Anti-GPR44 / CRTH2 antibody ALS10672 IHC of human nasal mucosa, eosinophils.



Anti-GPR44 / CRTH2 antibody ALS10672 immunocytochemistry (ICC) staining of HEK293 human...

GPR44 / CRTH2 Antibody (N-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 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 (N-Terminus) - References

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Nagata K.,et al.J. Immunol. 162:1278-1286(1999).
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