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GPR174 Antibody (Cytoplasmic Domain)

Rabbit Polyclonal Antibody

Catalog # ALS10109

Specification

GPR174 Antibody (Cytoplasmic Domain) - Product Information

Application	**IHC**
Primary Accession	Q9BXC1
Reactivity	**Human, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**39kDa KDa**

GPR174 Antibody (Cytoplasmic Domain) - Additional Information

Gene ID 84636

Other Names
Probable G-protein coupled receptor 174, GPR174

Target/Specificity
Human GPR174. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

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

Precautions
GPR174 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR174 Antibody (Cytoplasmic Domain) - Protein Information

Name GPR174

Function
G-protein-coupled receptor of lysophosphatidylserine (LysoPS) that plays different roles in immune response (PubMed:36823105). Plays a negative role in regulatory T-cell accumulation and homeostasis. Under inflammatory conditions where LysoPS production increases, contributes to the down-regulation of regulatory T-cell activity to favor effector response. Mediates the suppression of IL-2 production in activated T-lymphocytes leading to inhibition of growth, proliferation and differentiation of T-cells. Mechanistically, acts via G(12)/G(13)- containing heterotrimeric G proteins to trigger elevated cyclic AMP levels and protein kinase A/PKA activity, which may in turn act to antagonize proximal TCR signaling. Plays an important role in the initial period of sepsis through the regulation of macrophage polarization and pro- and anti-inflammatory cytokine secretions. Upon testosterone treatment, acts as a receptor for CCL21 and subsequently triggers through G(q)-alpha and G(12)/G(13) proteins a calcium flux leading to chemotactic effects

on activated B-cells. Signals via GNA13 and PKA to promote CD86 up-regulation by follicular B-cells.

Cellular Location
Cell membrane; Multi-pass membrane protein.

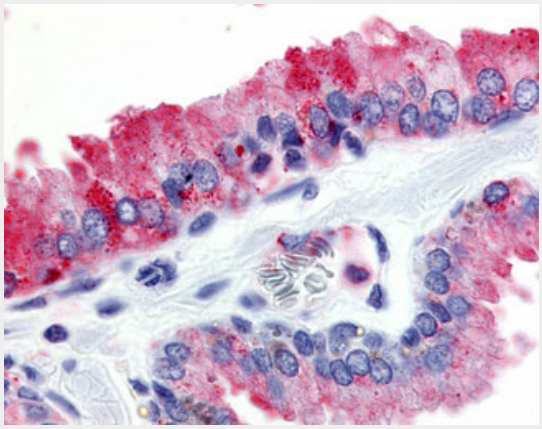
Volume
50 µl

GPR174 Antibody (Cytoplasmic 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 Cytomety
- Cell Culture

GPR174 Antibody (Cytoplasmic Domain) - Images



Anti-GPR174 antibody ALS10109 IHC of human prostate.

GPR174 Antibody (Cytoplasmic Domain) - Background

Putative receptor for purines coupled to G-proteins.

GPR174 Antibody (Cytoplasmic Domain) - References

Wang Y.-G.,et al.Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.
Takeda S.,et al.FEBS Lett. 520:97-101(2002).
Warren C.N.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.
Ross M.T.,et al.Nature 434:325-337(2005).