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Anti-GPR174 Antibody

Catalog # AP51239

Product Information

Application	WB
Primary Accession	Q9BXC1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38503

Additional Information

Gene ID	84636
Other Names	Probable G-protein coupled receptor 174
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR174. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

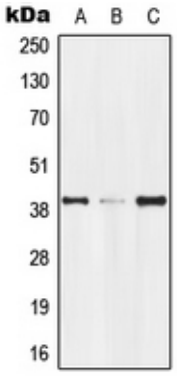
Name	GPR174
Function	G protein-coupled receptor of lysophosphatidylserine (LysoPS) that plays different roles in immune response (PubMed:36823105). Plays a negative role in regulatory T-cell accumulation and homeostasis. Under inflammatory conditions where LysoPS production increases, contributes to 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(s)- 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.

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).

Images



Western blot analysis of GPR174 expression in Jurkat (A), mouse kidney (B), rat kidney (C) whole cell lysates. (Predicted band size: 38 kD; Observed band size: 39 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.