

Anti-GPR174 Antibody

Rabbit polyclonal antibody to GPR174

Catalog # AP61048

Product Information

Application	WB, IF/IC
Primary Accession	Q9BXC1
Other Accession	Q3U507
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), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) 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.

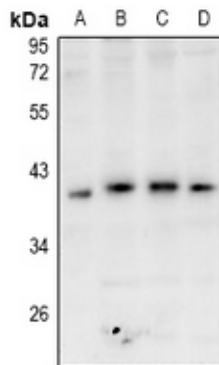
Cellular Location

Cell membrane; Multi-pass membrane protein.

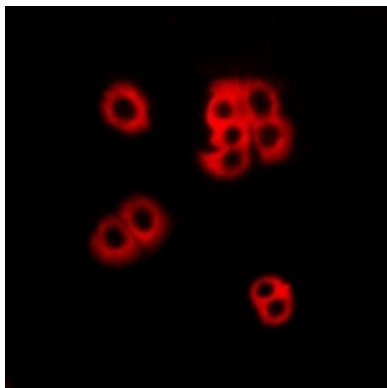
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR174. The exact sequence is proprietary.

Images



Western blot analysis of GPR174 expression in BV2 (A), PC12 (B), A549 (C), HeLa (D) whole cell lysates.



Immunofluorescent analysis of GPR174 staining in LOVO cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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