

GPR15 Polyclonal Antibody

Catalog # AP70161

Product Information

Application WB, IF Primary Accession P49685

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalCalculated MW40787

Additional Information

Gene ID 2838

Other Names GPR15; G-protein coupled receptor 15; Brother of Bonzo; BoB

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000.

ELISA: 1/10000. Not yet tested in other applications. IF~~1:50~200

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

Protein Information

Cellular Location

Name GPR15

Function G protein-coupled receptor that plays an important role in immune

homeostasis (PubMed:<u>33758080</u>, PubMed:<u>38918398</u>). Acts via its natural ligand GPR15LG, a chemokine-like polypeptide strongly expressed in gastrointestinal tissues. GPR15-GPR15LG signaling axis regulates intestinal homeostasis and inflammation through the migration of immune cells (PubMed:<u>33758080</u>, PubMed:<u>38918398</u>). Controls thereby the specific homing of T-cells, particularly FOXP3+ regulatory T-cells (Tregs), to the large intestine

lamina propria (By similarity). Also required for skin localization of

thymus-derived dendritic epidermal T-cells (By similarity). Plays an important

role in mediating cytoprotective function as well as angiogenesis of thrombomodulin (By similarity). Mechanistically, preferentially signals through the Gi/o pathway to inhibit adenylate cyclase activity and activate a phosphatidylinositol- calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores (PubMed:35510660).

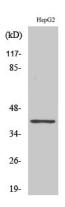
Cell membrane; Multi-pass membrane protein

Tissue Location Highly expressed in lymphoid tissues, including macrophages and peripheral

Background

Probable chemokine receptor. Alternative coreceptor with CD4 for HIV-1 infection.

Images



Western Blot analysis of various cells using GPR15 Polyclonal Antibody

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