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ADGRG3 / GPR97 Antibody (Extracellular Domain)

Rabbit Polyclonal Antibody
Catalog # ALS10689

Specification

ADGRG3 / GPR97 Antibody (Extracellular Domain) - Product Information

Application	**IHC-P**
Primary Accession	Q86Y34
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**61kDa KDa**
Dilution	**IHC-P~~N/A**

ADGRG3 / GPR97 Antibody (Extracellular Domain) - Additional Information

Gene ID 222487

Other Names
Probable G-protein coupled receptor 97, G-protein coupled receptor PGR26, GPR97, PGR26

Target/Specificity
Human GPR97. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

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

Precautions
ADGRG3 / GPR97 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

ADGRG3 / GPR97 Antibody (Extracellular Domain) - Protein Information

Name ADGRG3 {ECO:0000303|PubMed:30559745, ECO:0000312|HGNC:HGNC:13728}

Function
Adhesion G-protein coupled receptor (aGPCR) for glucocorticoid hormones such as cortisol, cortisone and 11- deoxycortisol (PubMed:33408414). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:33408414). ADGRG3/GPR97 is coupled to G(o)/GNAO1 G proteins and mediates signaling by inhibiting adenylate cyclase activity (PubMed:33408414). May also signal through G-alpha(q)- proteins; additional evidence are however required to confirm this result in vivo (PubMed:22575658). Plays a role

in the regulation of various processes including B-cell development, inflammation or innate immunity (PubMed:30559745, PubMed:36302784). Regulates migration of lymphatic endothelial cells in vitro via the small GTPases RhoA and CDC42 (PubMed:24178298). Antibody ligation leads to the production and activation of antimicrobial mediators like reactive oxygen species (ROS) and myeloperoxidase (MPO) as well as enhanced bacteria uptake and killing by granulocytes (PubMed:30559745). Additionally, collaborates with protease-activated receptor 2/PAR2 to stimulate neutrophil-driven antimicrobial responses and endothelial cell activation (PubMed:36302784).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in cultured primary dermal lymphatic endothelial cells (PubMed:24178298). Highly expressed in polymorphonuclear cells (PMNs) including neutrophilic, eosinophilic, and basophilic granulocytes (PubMed:30559745)

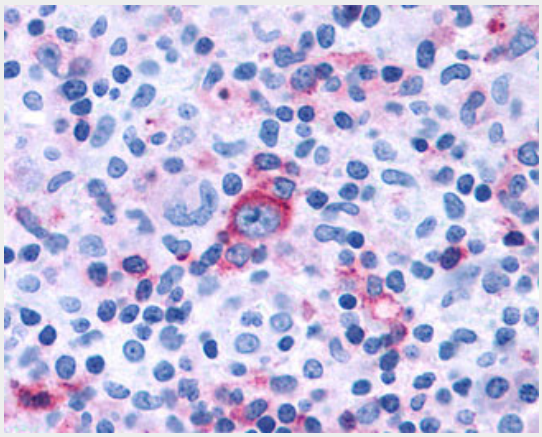
Volume
50 µl

ADGRG3 / GPR97 Antibody (Extracellular 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

ADGRG3 / GPR97 Antibody (Extracellular Domain) - Images



Anti-GPR97 antibody IHC of human Lymph Node, Hodgkins Lymphoma.

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ADGRG3 / GPR97 Antibody (Extracellular Domain) - Background

Orphan receptor.

ADGRG3 / GPR97 Antibody (Extracellular Domain) - References

Okaze H.,et al.Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.
Fredriksson R.,et al.FEBS Lett. 531:407-414(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).
Vassilatis D.K.,et al.Proc. Natl. Acad. Sci. U.S.A. 100:4903-4908(2003).