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GPR97 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17125a

Specification

GPR97 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q86Y34
Other Accession	NP_740746.4
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**60861**
Antigen Region	**103-130**

GPR97 Antibody (N-term) - Additional Information

Gene ID 222487

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

Target/Specificity
This GPR97 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-130 amino acids from the N-terminal region of human GPR97.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GPR97 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR97 Antibody (N-term) - 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

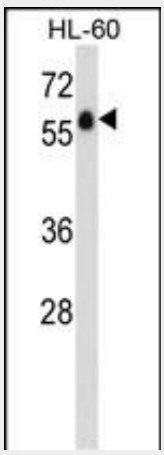
Tissue Location
Expressed in cultured primary dermal lymphatic endothelial cells (PubMed:24178298). Highly expressed in polymorphonuclear cells (PMNs) including neutrophilic, eosinophilic, and basophilic granulocytes (PubMed:30559745)

GPR97 Antibody (N-term) - 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

GPR97 Antibody (N-term) - Images



GPR97 Antibody (N-term) (Cat. #AP17125a) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the GPR97 antibody detected the GPR97 protein (arrow).

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GPR97 Antibody (N-term) - Background

GPR97 is an orphan receptor.

GPR97 Antibody (N-term) - References

Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :
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Vassilatis, D.K., et al. Proc. Natl. Acad. Sci. U.S.A. 100(8):4903-4908(2003)
Fredriksson, R., et al. FEBS Lett. 531(3):407-414(2002)
Kuznicki, J., et al. Cell Biol. Int. Rep. 3(1):17-23(1979)