

# GPR97 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17125a

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q86Y34</a>
Other Accession	<a href="#">NP_740746.4</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37259
Calculated MW	60861
Antigen Region	103-130

## Additional Information

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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 0.05% (V/V) Proclin 300. 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.

## Protein Information

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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: <a href="#">33408414</a> ). 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](#))

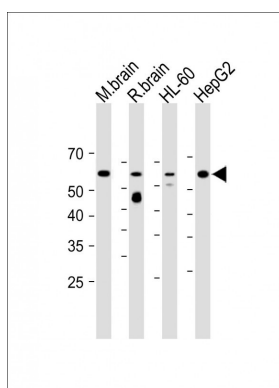
## Background

GPR97 is an orphan receptor.

## References

Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :  
 Bjarnadottir, T.K., et al. Genomics 84(1):23-33(2004)  
 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)

## Images



All lanes: Anti-GPR97 Antibody (N-term) at 1:2000 dilution  
 Lane 1: M. brain lysate Lane 2: R. brain lysate Lane 3:  
 HL-60 whole cell lysate Lane 4: HepG2 whole cell lysate  
 Lysates/proteins at 20 µg per lane. Secondary: Goat  
 Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615)  
 at 1/15000 dilution. Observed band size: 61 KDa  
 Blocking/Dilution buffer: 5% NFDM/TBST.

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