

Anti-GPR97 Antibody
Rabbit polyclonal antibody to GPR97
Catalog # AP60568**Specification**

Anti-GPR97 Antibody - Product Information

Application	WB, IF/IC
Primary Accession	Q86Y34
Other Accession	Q8R0T6
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60861

Anti-GPR97 Antibody - Additional Information**Gene ID** 222487**Other Names**

PGR26; Probable G-protein coupled receptor 97; G-protein coupled receptor PGR26

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR97. 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

Anti-GPR97 Antibody - 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

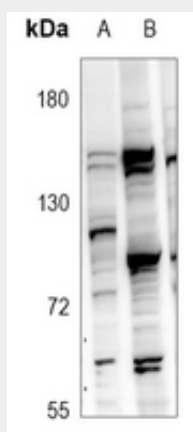
Expressed in cultured primary dermal lymphatic endothelial cells (PubMed:24178298). Highly expressed in polymorphonuclear cells (PMNs) including neutrophilic, eosinophilic, and basophilic granulocytes (PubMed:30559745)

Anti-GPR97 Antibody - Protocols

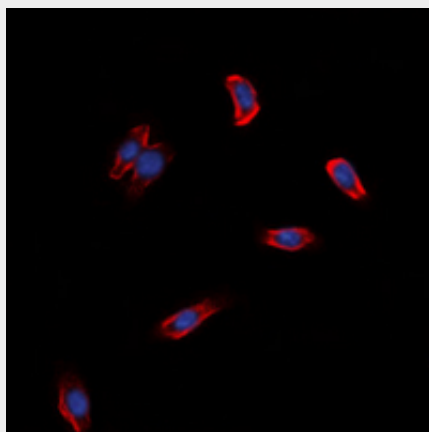
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-GPR97 Antibody - Images



Western blot analysis of GPR97 expression in HepG2 (A), SP20 (B) whole cell lysates.



Immunofluorescent analysis of GPR97 staining in HeLa 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 a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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