

Anti-GPR97 Antibody

Rabbit polyclonal antibody to GPR97

Catalog # AP60568

Product Information

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

Additional Information

Gene ID	222487
Other Names	PGR26; Probable G-protein coupled receptor 97; G-protein coupled receptor PGR26
Target/Specificity	Recognizes endogenous levels of GPR97 protein.
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

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

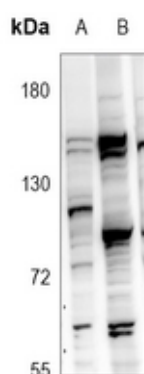
Tissue Location

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

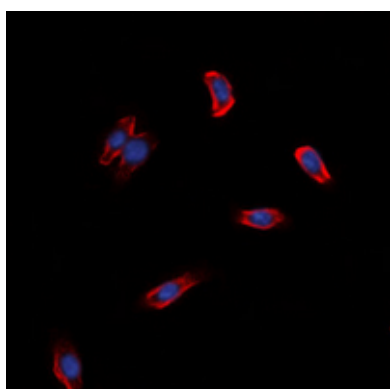
Background

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

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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