GPR97 polyclonal antibody

Catalog: BS30946 Host: Rabbit Reactivity: Human, Mouse

BackGround:

Adhesion G protein-coupled receptor (aGPCR) for glucocorticoid hormones such as cortisol, cortisone and 11-deoxycortisol . 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 . ADGRG3/GPR97 is coupled to G(o)/GNAO1 G proteins and mediates signaling by inhibiting adenylate cyclase activity . May also signal through G-alpha(q)-proteins; additional evidence are however required to confirm this result in vivo . Plays a role in the regulation of various processes including B-cell development, inflammation or innate immunity . Regulates migration of lymphatic endothelial cells in vitro via the small GTPases RhoA and CDC42 . Antibody ligation leads to the production and activation of antimicrobial mediators like reactive oxygen species (ROS) and m...

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~60.9 kDa

Swiss-Prot:

Q86Y34

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/100 - 1/500)

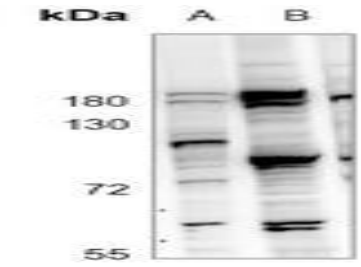
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

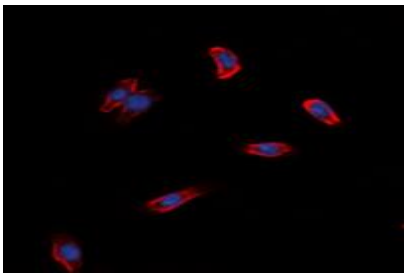
Recognizes endogenous levels of GPR97 protein.

DATA:



Western blot analysis of CD25 expression in Hela (A), MOLT4 (B), HEK293 (C), A549 (D), Jurkat (E), K562 (F), COS7 (G), PC12 (H), NIH/3T3 (I) whole cell lysates.

Immunohistochemical analysis of CD25 staining in human rectum cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CD25 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 ℃ in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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Note:	For research use only, not for use in diagnostic procedure.

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