

Datasheet for ABIN7237675
anti-GPR97 antibody (Extracellular)



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Overview

Quantity:	25 µL
Target:	GPR97
Binding Specificity:	AA 62-75, Extracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPR97 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Live Cell Imaging (LCI), Flow Cytometry (FACS)

Product Details

Purpose:	A Rabbit Polyclonal antibody to GPR97 (ADGRG3) (extracellular)
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: Peptide CNVENLQRYWLNYE, corresponding to amino acid residues 62 - 75 of human ADGRG3
Isotype:	IgG
Specificity:	Extracellular, N-term
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Mouse,rat - 12 out of 14 amino acid residues identical
Characteristics:	Extracellular, N-term

Product Details

Purification: Affinity purified on immobilized antigen.

Target Details

Target: GPR97

Alternative Name: ADGRG3 ([GPR97 Products](#))

Background: Adhesion G Protein-Coupled Receptor G3, G-protein coupled receptor 97, Adhesion G protein-coupled receptors (aGPCRs) are one of the five main families in the GPCR superfamily. They act as a molecular switch that regulate many physiological processes, including brain development, ion-water homeostasis, inflammation and cell-fate determination¹. One member of the aGPCRs family is the orphan receptor GPR97 (also known as ADGRG3). GPR97 consist of seven-transmembrane domain and a GPCR-Autoproteolysis INDucing (GAIN) domain. Auto-cleavage via the GAIN domain produces two subunits: the α -subunit (N-terminal fragment (NTF)) and the β -subunit (C-terminal fragment) that remain non-covalently associated at the cell surface². GPR97 is mainly expressed in immune cells such as neutrophils, eosinophils, and mast cells. Activation of GPR97 results in reduction in cAMP levels in combination with an increase in downstream effectors of G $\beta\gamma$, such as SRE and NF- κ B³. GPR97 was found to regulate B-cell development in mice and antimicrobial activity in human granulocytes³. In addition, studies have shown that GPR97 is involved in macrophage inflammation in high fat diet-induced obesity in mice⁴. Adhesion G Protein-Coupled Receptor G3, G-protein coupled receptor 97

Gene ID: 222487

NCBI Accession: [NM_170776](#)

UniProt: [Q86Y34](#)

Application Details

Application Notes: Antigen preadsorption control: 1 μ g peptide per 1 μ g antibody
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:200
Application Dilutions Western blot wb: 1:200

Comment: Negative Control: (ABIN7235457)
Blocking Peptide: (ABIN7235457)

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>