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Product datasheet for AP01429PU-S

GPR103 (QRFPR) Rabbit Polyclonal Antibody

Product data:

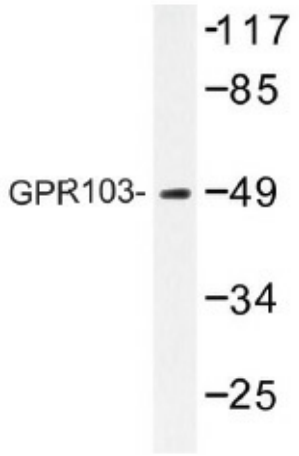
Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	**Western Blot:** 1/500 - 1/1000. **Immunofluorescence**: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	GPR103 antibody detects endogenous levels of GPR 103 protein. (region surrounding Ile310)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 with 0.05% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction (> 95% by SDS-PAGE)
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 49 kDa
Gene Name:	pyroglutamylated RFamide peptide receptor
Database Link:	Entrez Gene 84109 Human Q96P65

View online »

Background: G protein-coupled receptors (GPRs) are a protein family of transmembrane receptors that transmit an extracellular signal (ligand binding) into an intracellular signal (G protein activation). GPR signaling is an evolutionarily ancient mechanism used by all eukaryotes to sense environmental stimuli and mediate cell-cell communication. All of the receptors have seven membrane-spanning domains and the extracellular parts of the receptor can be glycosylated. These extracellular loops also contain two highly conserved cysteine residues which create disulfide bonds to stabilize the receptor structure. GPR103 is a 455 amino acid protein with highest expression in the brain, retina, trigeminal ganglion, hypothalamus and vestibular nucleus. In peripheral tissues, GPR103 is expressed only in the heart, kidney and testis. GPR103 may regulate adrenal function. A hypothalamic neuropeptide of the RFamide family (26RFa) acts as an endogenous ligand for GPR103.

Synonyms: Orexigenic neuropeptide QRFP receptor, G-protein coupled receptor 103, SP9155, AQ27

Product images:



Western blot (WB) analysis of GPR103 antibody (Cat.-No.: [AP01429PU-N]) in extracts from LOVO cells.