

Anti-GPR103 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 49 kDa. Actual: 49 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Raji (Human) Cell Lysate at 40 µg Primary: Anti-GPR103 (TMAB-06682) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 49 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GPR103
Antigen Species:	Human
Gene ID:	84109
Uniprot ID:	Q96P65

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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