GPR132 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GPR132, Polyclonal Antibody
Full Product Name	GPR132 Conjugated Antibody
Product Gene Name	anti-GPR132 antibody
Product Synonym Names	G2A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total GPR132 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
OMIM	606167
3D Structure	ModBase 3D Structure for Q9UNW8
Immunogen	Synthetic peptide of human GPR132
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-GPR132 antibody	Most Applications
Application Notes for anti-GPR132 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-GPR132 antibody	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein was reported to be a receptor for lysophosphatidylcholine action, but PubMedID: 15653487 retracts this finding and instead suggests this protein to be an effector of lysophosphatidylcholine action. This protein may have proton-sensing activity and may be a receptor for oxidized free fatty acids. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-GPR132 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GPR132 purchase	MBS9455437 is an antibody targeting GPR132. Also known as GPR132 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR132. It may not necessarily be applicable to this product.

NCBI GI #	7019387
NCBI GeneID	29933
NCBI Accession #	NP_037477
UniProt Primary Accession #	Q9UNW8
UniProt Related Accession #	Q9UNW8
GenBank Nucleotide #	NP_037477.1
NCBI Official Full Name	probable G-protein coupled receptor 132 isoform 1
NCBI Official Synonym Full Names	G protein-coupled receptor 132
NCBI Official Symbol	GPR132
NCBI Official Synonym Symbols	G2A
UniProt Protein Name	Probable G-protein coupled receptor 132
UniProt Synonym Protein Names	G2 accumulation protein
Protein Family	Probable G-protein coupled receptor
UniProt Gene Name	GPR132
UniProt Synonym Gene Names	G2A
UniProt Entry Name	GP132_HUMAN
NCBI Protein Information	probable G-protein coupled receptor 132
UniProt Comments for GPR132	GPR132: Receptor for an unknown ligand. Activates a G alpha protein, most likely G alpha(q). May be involved in apoptosis. Functions at the G2/M checkpoint to delay mitosis. May serve as a mechanism for T- and B-cells, and other cell types, to slow their proliferation and repair damaged DNA to ensure proper replication. Belongs to the G-protein coupled receptor 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR; GPCR, family 1 Chromosomal Location of Human Ortholog: 14q32.3 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; G1/S transition of mitotic cell cycle
Research Articles on GPR132	**1.** G protein-coupled receptor 132 (Gpr132) functions as a key macrophage sensor of the rising lactate in the acidic tumor milieu to mediate the reciprocal interaction between cancer cells and macrophages during breast cancer metastasis. Lactate activates macrophage Gpr132 to promote the alternatively activated macrophage (M2)-like phenotype, which, in turn, facilitates cancer cell adhesion, migration, and invasion.
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