Pael-R (GPR37) Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	Pael-R (GPR37), Blocking Peptide
Full Product Name	Pael-R (GPR37) Antibody (N-term) Blocking Peptide
Product Gene Name	GPR37 blocking peptide
Product Synonym Names	Prosaposin receptor GPR37; Endothelin B receptor-like protein 1; ETBR-LP-1; G-protein coupled receptor 37; Parkin-associated endothelin receptor-like receptor; PAELR; GPR37
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the GPR37 region of human Pael-R (GPR37). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Pael-R (GPR37) peptide (MBS9226094) is used for blocking the activity of Pael-R (GPR37) antibody (MBS9204126)
Molecular Weight	67,114 Da
OMIM	602583
Cellular Location	Cell membrane; Multi-pass membrane protein Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Expressed in brain and spinal cord, and at lower levels in testis, placenta and liver, but no detectable expression observed in any other tissue. When overexpressed in cells, tends to become insoluble and unfolded. Accumulation of the unfolded protein may lead to dopaminergic neuronal death in juvenile Parkinson disease (PDJ).
Related Product Information for GPR37 blocking peptide	Receptor for the neuroprotective and glioprotective factor prosaposin. Ligand binding induces endocytosis, followed by an ERK phosphorylation cascade.
Other Notes	Small volumes of GPR37 blocking peptide 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 GPR37 purchase	MBS9226094 is a blocking peptide targeting GPR37. Also known as Pael-R (GPR37) Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR37. It may not necessarily be applicable to this product.

NCBI GI #	4885323
NCBI GeneID	2861
NCBI Accession #	NP_005293
UniProt Primary Accession #	O15354
UniProt Secondary Accession #	O00348; O14768; Q8TD39; A4D0Y6
UniProt Related Accession #	O15354
GenBank Nucleotide #	NM_005302.3
NCBI Official Full Name	prosaposin receptor GPR37

NCBI Official Synonym Full Names	G protein-coupled receptor 37
NCBI Official Symbol	GPR37
NCBI Official Synonym Symbols	PAELR; EDNRBL; hET(B)R-LP
UniProt Protein Name	Prosaposin receptor GPR37
UniProt Synonym Protein Names	Endothelin B receptor-like protein 1; ETBR-LP-1; G-protein coupled receptor 37; Parkin-associated endothelin receptor-like receptor; PAELR
Protein Family	Prosaposin receptor
UniProt Gene Name	GPR37
UniProt Synonym Gene Names	ETBR-LP-1; PAELR
UniProt Entry Name	GPR37_HUMAN
NCBI Protein Information	prosaposin receptor GPR37
NCBI Summary for GPR37	This gene is a member of the G protein-coupled receptor family. The encoded protein contains seven transmembrane domains and is found in cell and endoplasmic reticulum membranes. G protein-coupled receptors are involved in translating outside signals into G protein mediated intracellular effects. This gene product interacts with Parkin and is involved in juvenile Parkinson disease. [provided by RefSeq, Oct 2012]
UniProt Comments for GPR37	GPR37: Orphan receptor. May have a unique functional role in the central nervous system. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, integral; GPCR, family 1; Membrane protein, multi-pass; Receptor, GPCR Chromosomal Location of Human Ortholog: 7q31 Cellular Component: endoplasmic reticulum; integral to plasma membrane; plasma membrane; receptor complex; ubiquitin ligase complex Molecular Function: G-protein coupled receptor activity; heat shock protein binding; Hsp70 protein binding; peptide binding; peptide receptor activity, G-protein coupled; protein binding; ubiquitin protein ligase binding Biological Process: G-protein coupled receptor protein signaling pathway; G-protein signaling, adenylate cyclase inhibiting pathway; positive regulation of MAPKKK cascade
Research Articles on GPR37	**1.** GPR37 was shown to be a component of the CASPR2-MUPP1 complex in brain.
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