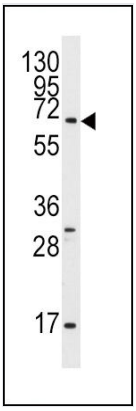
PAEL Receptor (GPR37) Antibody – Rabbit Polyclonal

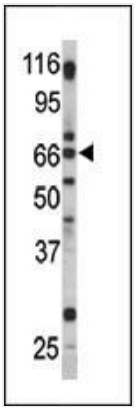
PRODUCT OVERVIEW

Product Name	PAEL Receptor (GPR37), Polyclonal Antibody
Full Product Name	PAEL Receptor, CT (Probable G-protein Coupled Receptor 37, Endothelin B Receptor-like Protein-1, ETBR-LP-1, Parkin-associated Endothelin Receptor-like Receptor, PAELR, GPR37)
Product Gene Name	anti-GPR37 antibody
Product Synonym Names	Anti -PAEL Receptor, CT (Probable G-protein Coupled Receptor 37, Endothelin B Receptor-like Protein-1, ETBR-LP-1, Parkin-associated Endothelin Receptor-like Receptor, PAELR, GPR37)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Purified Purified by ammonium sulfate precipitation.
Specificity	Recognizes human Pael-R.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	67,114 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (124385655..124406079, complement). Location: 7q31
OMIM	602583
3D Structure	ModBase 3D Structure for O15354
Immunogen	Synthetic peptide in the C-terminal region of human Pael-R (GPR37) (KLH).
Product Categories/Family for anti-GPR37 antibody	Antibodies; Abs to G Protein Receptors
Applications Tested/Suitable for anti-GPR37 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GPR37 antibody	Suitable for use in ELISA, Western Blot, and Immunohistochemistry. Dilution: ELISA: 1:1,000 Western Blot: 1:100-1:500 Immunohistochemistry: 1:50-1:100
Related Product Information for anti-GPR37 antibody	Parkinson is the second most common neurodegenerative disease after Alzheimers. About 1 percent of people over the age of 65 and 3 percent of people over the age of 75 are affected by the disease. The mutation is the most common cause of Parkinson disease identified to date. The function of Park2 is not well-known; however, it may play a role in the ubiquitin-mediated proteolytic pathway. Mutations in this gene are known to cause autosomal recessive juvenile parkinsonism. Alternative splicing of this gene produces three known products of undetermined function. Panneuronal expression of Parkin substrate Pael-R causes age-dependent selective degeneration of Drosophila dopaminergic (DA) neurons; coexpression of Parkin degrades Pael-R and suppresses its toxicity.

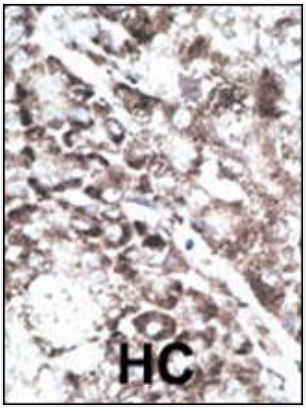
Other Notes	Small volumes of anti-GPR37 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GPR37 purchase	MBS628990 is an antibody targeting GPR37. Also known as PAEL Receptor, CT (Probable G-protein Coupled Receptor 37, Endothelin B Receptor-like Protein-1, ETBR-LP-1, Parkin-associated Endothelin Receptor-like Receptor, PAELR, GPR37). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GPR37 antibody
Western blot analysis of anti-Pael-R (GPR37) Antibody (C-term) in K562 cell line lysates (35ug/lane). Pael-R (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-GPR37 antibody
Western blot analysis of anti-Pael-R (GPR37) Pab in mouse brain tissue lysate. Pael-R (GPR37) (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-GPR37 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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_005293.1
UniProt Primary Accession #	O15354
UniProt Secondary Accession #	O00348; O14768; Q8TD39
UniProt Related Accession #	O15354
GenBank Nucleotide #	NM_005302.3
NCBI Official Full Name	probable G-protein coupled receptor 37

NCBI Official Synonym Full Names	G protein-coupled receptor 37 (endothelin receptor type B-like)
NCBI Official Symbol	GPR37
NCBI Official Synonym Symbols	PAELR; EDNRBL; hET(B)R-LP
UniProt Protein Name	Probable G-protein coupled receptor 37
UniProt Synonym Protein Names	Endothelin B receptor-like protein 1; ETBR-LP-1; Parkin-associated endothelin receptor-like receptor
Protein Family	Prosaposin receptor
UniProt Gene Name	GPR37
UniProt Synonym Gene Names	ETBR-LP-1; PAELR
UniProt Entry Name	GPR37_HUMAN
NCBI Protein Information	probable G-protein coupled receptor 37; ETBR-LP-1; endothelin B receptor-like protein 1; Parkin-associated endothelin receptor-like receptor
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, multi-pass; Membrane protein, integral; Receptor, GPCR; GPCR, family 1 Chromosomal Location of Human Ortholog: 7q31 Cellular Component: endoplasmic reticulum membrane; integral to plasma membrane; plasma membrane; ubiquitin ligase complex; receptor complex Molecular Function: G-protein coupled receptor activity; protein binding; heat shock protein binding; ubiquitin protein ligase binding; peptide receptor activity, G-protein coupled; Hsp70 protein binding; peptide binding Biological Process: positive regulation of dopamine metabolic process; G-protein coupled receptor protein signaling pathway; positive regulation of MAPKKK cascade; dopamine biosynthetic process; G-protein signaling, adenylate cyclase inhibiting pathway; locomotion during locomotory behavior
Research Articles on GPR37	**1.** GPR37 and GPR37L1 are receptors for the neuroprotective and glioprotective factors prosaptide and prosaposin.
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