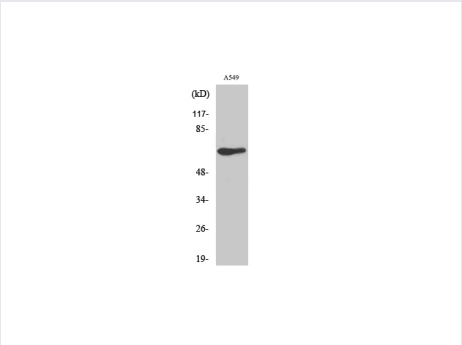
GPR50 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GPR50, Polyclonal Antibody
Full Product Name	GPR50 Polyclonal Antibody
Product Gene Name	anti-GPR50 antibody
Product Synonym Names	GPR50; Melatonin-related receptor; G protein-coupled receptor 50; H9
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Antigen Affinity Purified
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated MW: 67 Observed MW: 68
OMIM	300207
Immunogen	Synthesized peptide derived from the Internal region of human GPR50.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-50590
Product Categories/Family for anti-GPR50 antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GPR50 antibody	Western Blot (WB), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-GPR50 antibody	WB: 1:500-1:2000, IF: 1:50-1:100, ELISA: 1:5000-1:20000
Related Product Information for anti-GPR50 antibody	MBS2536660 is an antibody targeting GPR50. Also known as GPR50 Polyclonal Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-GPR50 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.



Western Blot (WB) of anti-GPR50 antibody
Western Blot analysis of various cells using GPR50 Polyclonal Antibody at dilution of 1:1000.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPR50. It may not necessarily be applicable to this product.

NCBI GI #	111494116
NCBI GeneID	9248
NCBI Accession #	AAI05684.1
UniProt Secondary Accession #	Q0VGG3; Q3ZAR0
UniProt Related Accession #	Q13585
NCBI Official Full Name	GPR50 protein
NCBI Official Synonym Full Names	G protein-coupled receptor 50
NCBI Official Symbol	GPR50
NCBI Official Synonym Symbols	H9; Mel1c
UniProt Protein Name	Melatonin-related receptor
UniProt Synonym Protein Names	G protein-coupled receptor 50; H9
Protein Family	Melatonin-related receptor
UniProt Gene Name	GPR50
UniProt Entry Name	MTR1L_HUMAN
NCBI Protein Information	melatonin-related receptor
NCBI Summary for GPR50	This gene product belongs to the G-protein coupled receptor 1 family. Even though this protein shares similarity with the melatonin receptors, it does not bind melatonin, however, it inhibits melatonin receptor 1A function through heterodimerization. Polymorphic variants of this gene have been associated with bipolar affective disorder in women. [provided by RefSeq, Jan 2010]

UniProt Comments for GPR50	GPR50: an orphan G protein coupled receptor with high sequence homology to the melatonin receptors MT1 and MT2. Does not bind melatonin. Forms heterodimers with MT1 and MT2 and acts as a negative regulator of MT1 agonist binding and G protein coupling; inhibition of melatonin receptor activity is dependent on the long, proline-rich carboxy terminal tail of GPR50. On a physiological level, GPR50 is involved in the regulation of adaptive thermoregulation in mammals and deletion of GPR50 in mice produces a profound effect on the response to fasting and facilitates entry into torpor. Polymorphisms in the corresponding GPR50 gene are associated with bipolar affective disorder and major depressive disorder in women, indicating that variation in GPR50 may be an important gender-specific risk factor for certain mental disorders. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1 Chromosomal Location of Human Ortholog: Xq28 Cellular Component: integral to plasma membrane Molecular Function: G-protein coupled receptor activity; identical protein binding; melatonin receptor activity; protein binding Biological Process: cell surface receptor linked signal transduction; cell-cell signaling; G-protein coupled receptor protein signaling pathway
Research Articles on GPR50	**1.** The results provide deeper insight into the functional evolution of GPR50 in mammals at the molecular level
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