GRK6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GRK6, Polyclonal Antibody
Full Product Name	GRK6, CT (G-Protein Coupled Receptor Kinase 6, G-Protein-coupled Receptor Kinase GRK6, GPRK6, FLJ32135) (MaxLight 650)
Product Gene Name	anti-GRK6 antibody
Product Synonym Names	EC=2.7.11.16
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human GRK6. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	65,991 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (176853687..176869850). Location: 5q35
OMIM	600869
3D Structure	ModBase 3D Structure for P43250
Immunogen	Synthetic peptide selected from the C-terminal region of human GRK6 (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-GRK6 antibody	Antibodies; G Protein Receptors
Applications Tested/Suitable for anti-GRK6 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-GRK6 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-GRK6 antibody	MBS6479031 is an antibody targeting GRK6. Also known as GRK6, CT (G-Protein Coupled Receptor Kinase 6, G-Protein-coupled Receptor Kinase GRK6, GPRK6, FLJ32135) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-GRK6 antibody	1. Strausberg, R.L., et al., Proc. Natl. Acad. Sci. USA 99(26):16899-16903 (2002). 2. Stoffel, R.H., et al., J. Biol. Chem. 269(45):27791-27794 (1994). 3. Benovic, J.L., et al., J. Biol. Chem. 268(26):19521-19527 (1993).

Other Notes	Small volumes of anti-GRK6 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRK6. It may not necessarily be applicable to this product.

NCBI GI #	51896037
NCBI GeneID	2870
NCBI Accession #	NP_001004105.1
UniProt Primary Accession #	P43250
UniProt Secondary Accession #	O60541; Q13652
UniProt Related Accession #	P43250
GenBank Nucleotide #	NM_001004105.2
NCBI Official Full Name	G protein-coupled receptor kinase 6 isoform C
NCBI Official Synonym Full Names	G protein-coupled receptor kinase 6
NCBI Official Symbol	GRK6
NCBI Official Synonym Symbols	GPRK6
UniProt Protein Name	G protein-coupled receptor kinase 6
UniProt Synonym Protein Names	G protein-coupled receptor kinase GRK6
Protein Family	G protein-coupled receptor kinase
UniProt Gene Name	GRK6
UniProt Synonym Gene Names	GPRK6
UniProt Entry Name	GRK6_HUMAN
NCBI Protein Information	G protein-coupled receptor kinase 6
NCBI Summary for GRK6	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. The protein phosphorylates the activated forms of G protein-coupled receptors thus initiating their deactivation. Several transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for GRK6	GRK6: Specifically phosphorylates the activated forms of G protein-coupled receptors. Such receptor phosphorylation initiates beta-arrestin-mediated receptor desensitization, internalization, and signaling events leading to their desensitization. Seems to be involved in the desensitization of D2-like dopamin receptors in striatum and chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis. Phosphorylates rhodopsin (RHO) (in vitro) and a non G-protein-coupled receptor: LRP6 during Wnt signaling (in vitro). Widely expressed. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, protein; Protein kinase, AGC; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.16; AGC group; GRK family; GRK subfamily Chromosomal Location of Human Ortholog: 5q35 Cellular Component: membrane Molecular Function: G-protein coupled receptor kinase activity; protein binding; ATP binding Biological Process: Wnt receptor signaling pathway; protein amino acid phosphorylation; regulation of G-protein coupled receptor protein signaling pathway

Research Articles on GRK6	**1.** A reduced cortical concentration of GRK6 in schizophrenia (resembling that in aging) may result in altered G protein-dependent signaling, thus contributing to prefrontal deficits in schizophrenia.
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