GRK6 Positive Control

PRODUCT OVERVIEW

Product Name	GRK6, Positive Control
Full Product Name	GRK6 Positive Control
Product Gene Name	GRK6 positive control
Product Synonym Names	Western Blot Positive Control G protein-coupled receptor kinase 6; G protein coupled receptor kinase 6 antibody; G protein coupled receptor kinase GRK6 antibody; Gprk6 antibody; Grk6 antibody
Preparation and Storage	Store at -20 degree C for long term storage.
Molecular Weight	64,294 Da
3D Structure	ModBase 3D Structure for P43250
Immunogen	Purified Protein
Molecular Function	ATP binding; beta-adrenergic receptor kinase activity; G-protein coupled receptor kinase activity
Subcellular Location	Membrane; Lipid-anchor
Applications Tested/Suitable for GRK6 positive control	Western Blot (WB)
Application Notes for GRK6 positive control	WB: 1:2,500-1:5,000
Related Product Information for GRK6 positive control	Overview: 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 dopamine 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). Structure: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily. Expression: Widely expressed.
Other Notes	Small volumes of GRK6 positive control 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 GRK6 purchase	MBS5400708 is a positive control targeting GRK6.

ADDITIONAL DETAILS

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

NCBI GI #	51896035
NCBI GeneID	2870
NCBI Accession #	NP_002073
UniProt Primary Accession #	P43250
UniProt Secondary Accession #	O60541; Q13652
UniProt Related Accession #	P43250

GenBank Nucleotide #	NM_002082.3
NCBI Official Full Name	G protein-coupled receptor kinase 6 isoform B
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
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	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 dopamine 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).
Research Articles on GRK6	**1.** demonstrate for the first time exosomal enrichment of G-protein-coupled receptor kinase (GRK) 5 and GRK6, both of which regulate Src and IGF-IR signaling and have been implicated in cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/positive-control/grk6/5400708