GRK3 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	GRK3, Blocking Peptide
Full Product Name	GRK3 Peptide - N-terminal region
Product Gene Name	GRK3 blocking peptide
Product Synonym Gene Name	BARK2; ADRBK2; GRK3
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	GRK3 peptide (MBS3235536) is used for blocking the activity of GRK3 antibody (MBS3210581)
Molecular Weight	80kDa
OMIM	109636
Product Categories/Family for GRK3 blocking peptide	Peptide
Applications Tested/Suitable for GRK3 blocking peptide	Western Blot (WB)
Related Product Information for GRK3 blocking peptide	The beta-adrenergic receptor kinase specifically phosphorylates the agonist-occupied form of the beta-adrenergic and related G protein-coupled receptors. Overall, the beta adrenergic receptor kinase 2 has 85% amino acid similarity with beta adrenergic receptor kinase 1, with the protein kinase catalytic domain having 95% similarity. These data suggest the existence of a family of receptor kinases which may serve broadly to regulate receptor function.
Other Notes	Small volumes of GRK3 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 GRK3 purchase	MBS3235536 is a blocking peptide targeting GRK3. Also known as GRK3 Peptide - N-terminal region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRK3. It may not necessarily be applicable to this product.

NCBI GI #	148539879
NCBI GeneID	157
NCBI Accession #	NP_005151
UniProt Primary Accession #	P35626
UniProt Related Accession #	P35626
GenBank Nucleotide #	NM_005160
NCBI Official Full Name	beta-adrenergic receptor kinase 2
NCBI Official Synonym Full Names	G protein-coupled receptor kinase 3
NCBI Official Symbol	GRK3
NCBI Official Synonym Symbols	BARK2; ADRBK2

UniProt Protein Name	Beta-adrenergic receptor kinase 2
UniProt Synonym Protein Names	G-protein-coupled receptor kinase 3
UniProt Gene Name	ADRBK2
UniProt Synonym Gene Names	BARK2; GRK3; Beta-ARK-2
UniProt Entry Name	ARBK2_HUMAN
NCBI Protein Information	beta-adrenergic receptor kinase 2
UniProt Comments for GRK3	GRK3: Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily. Protein type: Kinase, protein; Protein kinase, AGC; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.15; AGC group; GRK family; BARK subfamily Chromosomal Location of Human Ortholog: 22q12.1 Molecular Function: G-protein coupled receptor kinase activity; beta-adrenergic receptor kinase activity; ATP binding; protein kinase activity Biological Process: receptor internalization; signal transduction; protein amino acid phosphorylation
Research Articles on GRK3	**1.** Study found that GRK3 was significantly overexpressed in 162 pairs of colon cancer tissues than in the matched noncancerous mucosa. These data show that aberrant expression of GRK3 plays an important role in promoting colon cancer progression through enhanced proliferation and reduced apoptosis.
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