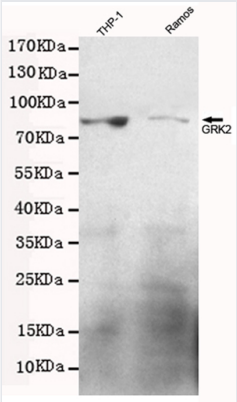
GRK2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	GRK2, Monoclonal Antibody
Full Product Name	GRK2 Mouse mAb
Product Gene Name	anti-GRK2 antibody
Product Synonym Names	ADRBK 1; ADRBK1; Adrenergic beta receptor kinase 1; Adrenergic beta receptor kinase 1; ARBK1_HUMAN; BARK 1; BARK; BARK1; Beta adrenergic receptor kinase 1; Beta ARK 1; Beta ARK1; Beta-adrenergic receptor kinase 1; Beta-ARK-1; FLJ16718; G Protein Coupled Receptor Kinase 2; G protein dependent receptor kinase 2; G-protein coupled receptor kinase 2; GRK 2; GRK2.
Clonality	Monoclonal
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of GRK2 and does not cross-react with related proteins.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	79,574 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (67033905..67054029). Location: 11q13.1
OMIM	109635
3D Structure	ModBase 3D Structure for P25098
Immunogen	Purified recombinant human GRK2 protein fragments expressed in E coli.
Modification	Unmodified/Total
Product Categories/Family for anti-GRK2 antibody	Primary Antibodies
Applications Tested/Suitable for anti-GRK2 antibody	Western Blot (WB)
Application Notes for anti-GRK2 antibody	WB: 1:500
Related Product Information for anti-GRK2 antibody	The product of this gene phosphorylates the beta-2-adrenergic receptor and appears to mediate agonist-specific desensitization observed at high agonist concentrations. This protein is an ubiquitous cytosolic enzyme that specifically phosphorylates the activated form of the beta-adrenergic and related G-protein-coupled receptors. Abnormal coupling of beta-adrenergic receptor to G protein is involved in the pathogenesis of the failing heart. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of anti-GRK2 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 GRK2 purchase	MBS9525295 is an antibody targeting GRK2. Also known as GRK2 Mouse mAb. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-GRK2 antibody
Western blot detection of GRK2 in Ramos and THP-1 cell lysates using GRK2 mouse mAb (1:500 diluted).with super ECL.Predicted band size:80KDa.Observed band size:80KDa.Exposure time:20S.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRK2. It may not necessarily be applicable to this product.

NCBI GI #	148539876
NCBI GeneID	156
NCBI Accession #	NP_001610.2
UniProt Primary Accession #	P25098
UniProt Secondary Accession #	Q13837; Q6GTT3; B0ZBE1
UniProt Related Accession #	P25098
GenBank Nucleotide #	NM_001619.3
NCBI Official Full Name	beta-adrenergic receptor kinase 1
NCBI Official Synonym Full Names	adrenergic, beta, receptor kinase 1
NCBI Official Symbol	ADRBK1
NCBI Official Synonym Symbols	GRK2; BARK1; BETA-ARK1
UniProt Protein Name	Beta-adrenergic receptor kinase 1
UniProt Synonym Protein Names	G-protein coupled receptor kinase 2
Protein Family	Beta-adrenergic receptor kinase
UniProt Gene Name	ADRBK1
UniProt Synonym Gene Names	BARK; BARK1; GRK2; Beta-ARK-1
UniProt Entry Name	ARBK1_HUMAN
NCBI Protein Information	beta-adrenergic receptor kinase 1; beta-ARK-1; G-protein coupled receptor kinase 2

UniProt Comments for GRK2	GRK2: a ubiquitous protein kinase of the GRK family. Phosphorylates the beta-2-adrenergic receptor and related G-protein-coupled receptors. Appears to mediate agonist-specific desensitization observed at high agonist concentrations. Expression level is consistently elevated in chronic human heart failure. Mouse models of severe heart failure have been used to demonstrate that inhibition of BARK1 with a peptide inhibitor is sufficient to increase mean survival, reduce dialation and improve cardiac function. Protein type: Protein kinase, AGC; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.15; AGC group; GRK family; BARK subfamily Chromosomal Location of Human Ortholog: 11q13.1 Cellular Component: membrane; cytoplasm; plasma membrane; cytosol Molecular Function: G-protein coupled receptor kinase activity; protein binding; Edg-2 lysophosphatidic acid receptor binding; beta-adrenergic receptor kinase activity; alpha-2A adrenergic receptor binding; ATP binding; protein kinase activity Biological Process: epidermal growth factor receptor signaling pathway; desensitization of G-protein coupled receptor protein signaling pathway; tachykinin signaling pathway; acetylcholine receptor signaling, muscarinic pathway; fibroblast growth factor receptor signaling pathway; nerve growth factor receptor signaling pathway; heart development; peptidyl-threonine phosphorylation; signal transduction; negative regulation of striated muscle contraction; peptidyl-serine phosphorylation; negative regulation of the force of heart contraction by chemical signal; phospholipase C activation; receptor internalization; positive regulation of catecholamine secretion; innate immune response; cardiac muscle contraction
Research Articles on GRK2	**1.** GRK2 dynamically associates with and phosphorylates HDAC6 to stimulate its alpha-tubulin deacetylase activity at specific cellular localizations such as the leading edge of migrating cells, thus promoting local tubulin deacetylation and enhanced motility.
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