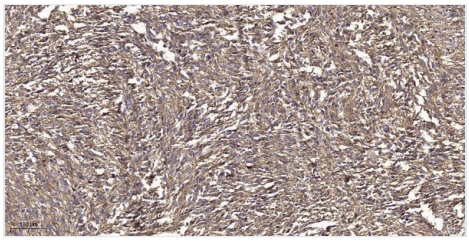
GRK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GRK2, Polyclonal Antibody
Full Product Name	GRK2 (Phospho-Tyr86) Rabbit Polyclonal Antibody
Product Gene Name	anti-GRK2 antibody
Product Synonym Gene Name	ADRBK1, BARK, BARK1
Product Synonym Names	Beta-adrenergic receptor kinase 1 (Beta-ARK-1)(EC 2.7.11.15)(G-protein coupled receptor kinase 2); BH6842; GRK2 (Phospho-Tyr86)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	The antibody detects endogenous phospho levels of GRK2 (Phospho-Tyr86) at Human:Y86, Mouse:Y86, Rat:Y86
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	Synthesized peptide derived from human GRK2 (Phospho-Tyr86)
Modification	Phospho Specific
Applications Tested/Suitable for anti-GRK2 antibody	Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF)(paraffin section), Western Blot (WB)
Application Notes for anti-GRK2 antibody	IHC-p: 1:50-200 WB: 1:500-2000
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	MBS9511929 is an antibody targeting GRK2. Also known as GRK2 (Phospho-Tyr86) Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-GRK2 antibody
Immunohistochemical analysis of paraffin-embedded human small intestinal carcinoma tissue. 1,primary Antibody was diluted at 1:200(4 degree overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval(>98 degree C,20min). 3,Secondary antibody was diluted at 1:200

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.
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/polyclonal-human-mouse-rat-antibody/grk2/9511929