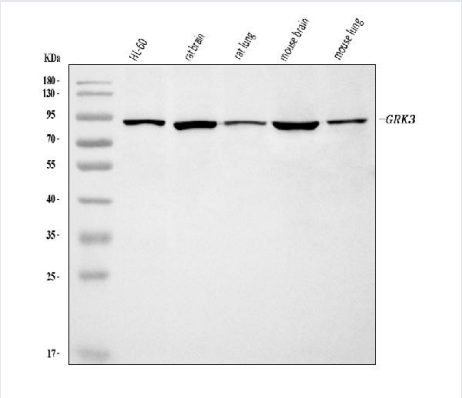
GRK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GRK3, Polyclonal Antibody
Full Product Name	Anti-GRK3 Antibody Picoband
Product Gene Name	anti-GRK3 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	79,710 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (25960861..26125259). Location: 22q12.1
OMIM	109636
3D Structure	ModBase 3D Structure for P35626
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human GRK3 recombinant protein (Position: R591-L688).
Product Categories/Family for anti-GRK3 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-GRK3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-GRK3 antibody	WB: 0.25-0.5 ug/ml, Human, Mouse, Rat Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot.
Related Product Information for anti-GRK3 antibody	Beta-adrenergic receptor kinase 2(beta-ARK-2), also known asG-protein-coupled receptor kinase 3(GRK3), is anenzymethat in humans is encoded by theADRBK2gene. The humanADRBK2gene is located on 22q11. 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 anti-GRK3 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 GRK3 purchase	MBS1755928 is an antibody targeting GRK3. Also known as Anti-GRK3 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-GRK3 antibody
Figure 1. Western blot analysis of GRK3 using anti-GRK3 antibody (MBS1755928).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HL-60 whole cell lysates,Lane 2: rat brain tissue lysates,Lane 3: rat lung tissue lysates,Lane 4: mouse brain tissue lysates,Lane 5: mouse lung tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GRK3 antigen affinity purified polyclonal antibody (#MBS1755928) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GRK3 at approximately 80 kDa. The expected band size for GRK3 is at 80 kDa.

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_005151.2
UniProt Primary Accession #	P35626
UniProt Secondary Accession #	Q9UGW9
UniProt Related Accession #	P35626
GenBank Nucleotide #	NM_005160.3
NCBI Official Full Name	beta-adrenergic receptor kinase 2
NCBI Official Synonym Full Names	adrenergic, beta, receptor kinase 2
NCBI Official Symbol	ADRBK2
NCBI Official Synonym Symbols	GRK3; BARK2
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; beta-ARK-2; G-protein-coupled receptor kinase 3
NCBI Summary for GRK3	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. [provided by RefSeq, Jul 2008]
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.** In oral squamous cell carcinomas, malignant cells and surrounding tissue overexpress the ADRBK2 gene.
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