

Rabbit GRK1 Polyclonal Antibody | anti-GRK1 antibody

GRK1 Antibody

CATALOG # AAA326859	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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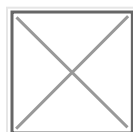
PRODUCT SYNONYMS

GRK1; Polyclonal Antibody; GRK1 Antibody; EC=2.7.11.14; G protein-coupled receptor kinase 1; GPRK1; Grk1; Rhodopsin kinase; RHOK; RK; RK_HUMAN; anti-GRK1 antibody

PRODUCT SPECIFICATIONS

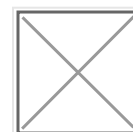
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GRK1 antibody detects endogenous levels of total GRK1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	563
Applicable Applications for anti-GRK1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human GRK1
Subcellular Location	Membrane.
Tissue Specificity	Retinal-specific. Expressed in rods and cones cells.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts of Mouse spleentissue lysate, using GRK1antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326859 at 1/100 staining Human Head and neck cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-GRK1 antibody	Description: 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 rhodopsin and initiates its deactivation. Defects in GRK1 are known to cause Oguchi disease 2 (also known as stationary night blindness Oguchi type-2). Retina-specific kinase involved in the signal turnoff via phosphorylation of rhodopsin (RHO), the G protein-coupled receptor that initiates the phototransduction cascade. This rapid desensitization is essential for scotopic vision and permits rapid adaptation to changes in illumination. Function: Retina-specific kinase involved in the signal turnoff via phosphorylation of rhodopsin (RHO), the G protein-coupled receptor that initiates the phototransduction cascade. This rapid desensitization is essential for scotopic vision and permits rapid adaptation to changes in illumination. Subunit Structure: Interacts (when prenylated) with PDE6D; this promotes release from membranes. Post-translational Modifications: Autophosphorylated, Ser-21 is a minor site of autophosphorylation compared to Ser-491 and Thr-492 (By similarity). Phosphorylation at Ser-21 is regulated by light and activated by cAMP. Farnesylation is required for full activity. Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506529
NCBI GeneID	6011
NCBI Accession #	NP_002920.1
NCBI GenBank Nucleotide #	NM_002929.2
UniProt Accession #	Q15835; Q53X14
Molecular Weight	Observed: 63.5 kDa Predicted: 64 kDa
NCBI Official Full Name	rhodopsin kinase
NCBI Official Synonym Full Names	G protein-coupled receptor kinase 1
NCBI Official Symbol	GRK1
NCBI Official Synonym Symbols	RK; RHOK; GPRK1
NCBI Protein Information	rhodopsin kinase
UniProt Protein Name	Rhodopsin kinase
UniProt Gene Name	GRK1
UniProt Synonym Gene Names	RHOK; RK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.