Datasheet for ABIN6655845

anti-GRK2 antibody (C-Term)

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Overview

Quantity:	25 µL
Target:	GRK2 (ADRBK1)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This GRK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Purpose:	GRK2 Antibody
Immunogen:	Anti-GRK2 antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to a near C-terminal portion of human GRK2 conjugated to Keyhole Limpet Hemocyanin (KLH).
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human GRK2.
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

Target Details

Target:	GRK2 (ADRBK1)
Alternative Name:	GRK2 (ADRBK1 Products)
Background:	Synonyms: Goat Anti-G Protein-Coupled Receptor Kinase 2 Antibody, Goat Anti-GRK2 Antibody, Beta-ARK-1, ADRBK1, BARK1, G-Protein Coupled Receptor Kinase 2, Adrenergic, Beta, Receptor Kinase 1, Adrenergic Beta Receptor Kinase 1, Beta-Adrenergic Receptor Kinase 1, EC 2.7.11.15, BETA-ARK1, BARK Background: GRK2 (G Protein-Coupled Receptor Kinase 2) is a member of the G protein-coupled receptor kinase family of proteins. GRK2 Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and as well as a wide range of other substrates including non-GPCR cell surface receptors, and cytoskeletal, mitochondrial, and transcription factor proteins. It is a key regulator of LPAR1 signaling. GRK2 competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor. It desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner. And positively regulates ciliary smoothened (SMO)-dependent Hedgehog (Hh) signaling pathway by facilitating the trafficking of SMO into the cilium and the stimulation of SMO activity. Data from rodent models supports a role for this gene in embryonic development, heart function and metabolism. Elevated expression of this gene has been observed in human patients with heart failure and Alzheimer's disease. Anti-GRK2 Antibody is useful for researchers interested in Neuroscience, Cytokines & Growth Factors, and Stem Cell Research. Gene Name: GRK2
Gene ID:	156
NCBI Accession:	NP_001610
UniProt:	P25098
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of G-Protein Coupled Receptor Protein Signaling, CXCR4-mediated Signaling Events, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	ELISA_Dilution: 5 µg/mL Immunohistochemistry_Dilution: 1:1000 IF_Microscopy_Dilution: 15 µg/mL Western_Blot_Dilution: 1:1000
Comment:	Anti-GRK2 Antibody has been tested in Western Blot and IHC. Expect a band at ~79.6kDa in

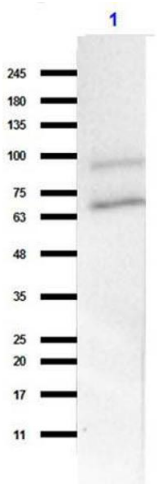
Application Details

	western blot using appropriate lysates. Positive control used: Human high grade lymphoma tissue in Immunohistochemistry and THP-1 lysate in western blot.
Restrictions:	For Research Use only

Handling

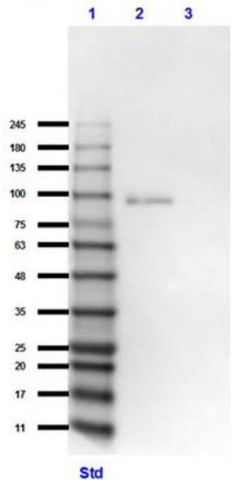
Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiry Date:	12 months

Images



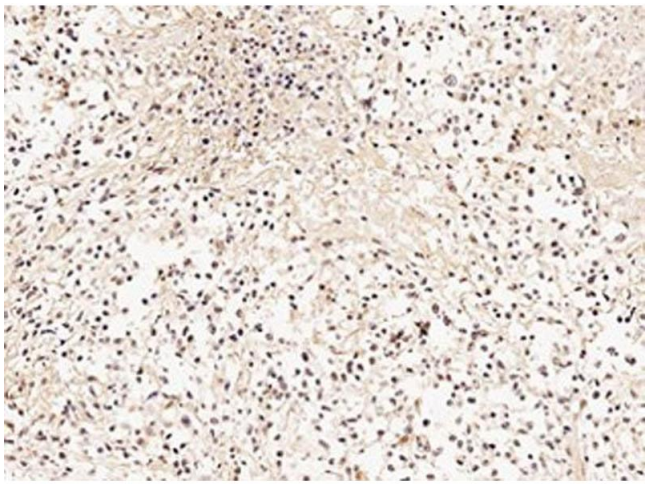
Western Blotting

Image 1. Western Blot of Gt Anti-GRK2 Antibody - Western Blot of Goat Anti-GRK2 Antibody. Lane 1: THP-1 lysate. Primary Antibody: Anti-GRK2 at 1:1000 overnight at 2-8°C. Secondary Antibody: Goat Anti-Donkey IgG HRP at 1:40,000 for 1hr at RT. Block: 5% BLOTTO. Observed: ~80-100 kDa.



Western Blotting

Image 2. Western Blot of Goat Anti-GRK2 Antibody Western Blot of Goat Anti-GRK2 Antibody. Lane 1: Opal Prestained Molecular Weight . Lane 2: HEK293T - GRK2 Overexpressing Lysate. Lane 3: HEK293T - empty vector lysate. Primary Antibody: Anti-GRK2 at 1:1000 overnight at 2-8°C. Secondary Antibody: Goat Anti-Donkey IgG HRP at 1:40,000 for 1hr at RT. Block: 5% BLOTTO. Observed: Overexpressed lysate ~80-100kDa.



Immunohistochemistry

Image 3. Immunohistochemistry of Goat Anti-GRK2 Antibody Immunohistochemistry of Goat Anti-GRK2 Antibody. Tissue: Human high grade Lymphoma tissue. Antigen Retrieval: Heat induced epitope retrieval (HIER). Primary Antibody: Anti-GRK2 at 1:1000. Secondary Antibody: Anti-Goat. Stain: hematoxylin. Magnification: 20X. Location: specific cytoplasmic staining and partially weak nuclear staining.