

Datasheet for ABIN6655844
anti-GRK2 antibody (C-Term)



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3 Images

Overview

Quantity:	100 µg
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)

Product Details

Immunogen:	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). Immunogen Type: Peptide
Isotype:	IgG
Cross-Reactivity:	Human, Mouse (Murine)
Purification:	This affinity purified antibody is directed against human GRK2. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis of the sequence shows 100% reactivity to human, and 90% to rat, mouse, and golden hamster.

Target Details

Target:	GRK2 (ADRBK1)
Alternative Name:	GRK2 (ADRBK1 Products)
Background:	<p>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</p> <p>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.</p> <p>Gene Name: GRK2</p>
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:	<p>Immunohistochemistry Dilution: 1:1000</p> <p>Application Note: Anti-GRK2 Antibody has been tested in ELISA, Western Blot, and IHC. Expect a band at ~79.6 kDa in western blot using appropriate lysates. Positive control used: Human high grade lymphoma tissue in Immunohistochemistry and THP-1 lysate in western blot.</p> <p>ELISA Dilution: 1:10,000-1:50,000</p>
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Application Details

Western Blot Dilution: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
0.01 % (w/v) Sodium Azide

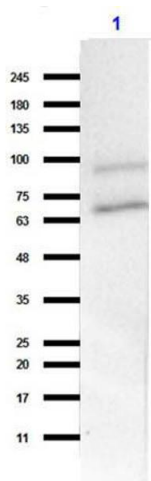
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: RT, 4 °C, -20 °C

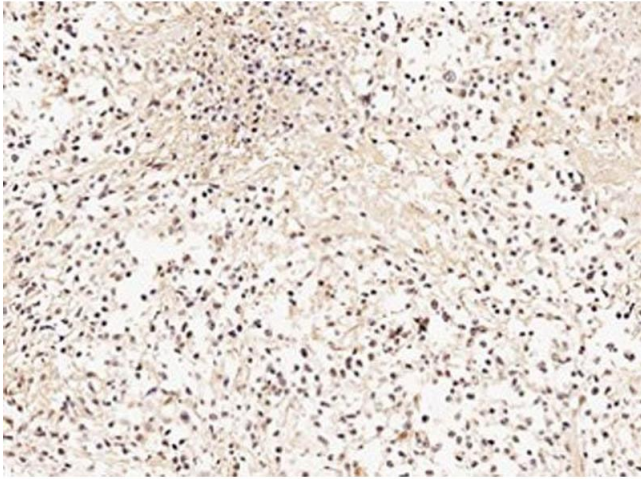
Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Images



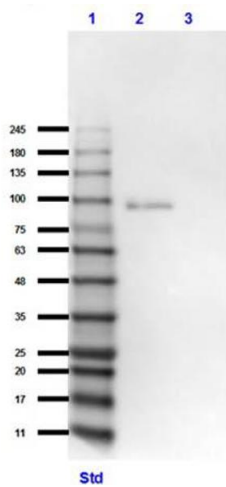
Western Blotting

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 1 hr at RT. Block: 5% BLOTTO. Observed: ~80-100 kDa.



Immunohistochemistry

Image 2. 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.



Western Blotting

Image 3. 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.