

Rabbit anti-Human, Mouse GRK5 Polyclonal Antibody | anti-GRK5 antibody

GRK5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA233940	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot, ELISA

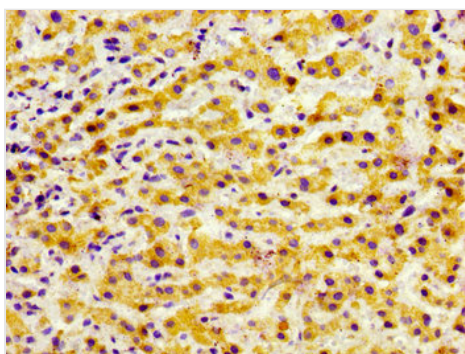
PRODUCT SYNONYMS

GRK5; Polyclonal Antibody; GRK5 Antibody; G protein-coupled receptor kinase 5; G protein-coupled receptor kinase GRK5; GPRK5; anti-GRK5 antibody

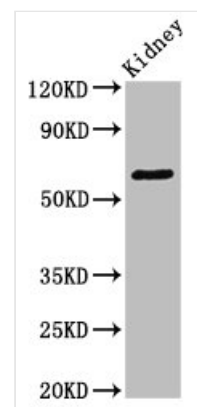
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	590
Applicable Applications for anti-GRK5 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human G protein-coupled receptor kinase 5 protein (406-590AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human liver cancer using AAA233940 at dilution of 1:100


WB (Western Blot)

Western BlotPositive WB detected in: Mouse kidney tissueAll lanes: GRK5 antibody at 3.4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 68 KDaObserved band size: 68 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-GRK5 antibody	Serine/threonine kinase that phosphorylates preferentially the activated forms of a variety of G-protein-coupled receptors (GPCRs). Such receptor phosphorylation initiates beta-arrestin-mediated receptor desensitization, internalization, and signaling events leading to their down-regulation. Phosphorylates a variety of GPCRs, including adrenergic receptors, muscarinic acetylcholine receptors (more specifically Gi-coupled M2/M4 subtypes), dopamine receptors and opioid receptors. In addition to GPCRs, also phosphorylates various substrates: Hsc70-interacting protein/ST13, TP53/p53, HDAC5, and arrestin-1/ARRB1. Phosphorylation of ARRB1 by GRK5 inhibits G-protein independent MAPK1/MAPK3 signaling downstream of 5HT4-receptors. Phosphorylation of HDAC5, a repressor of myocyte enhancer factor 2 (MEF2) leading to nuclear export of HDAC5 and allowing MEF2-mediated transcription. Phosphorylation of TP53/p53, a crucial tumor suppressor, inhibits TP53/p53-mediated apoptosis. Phosphorylation of ST13 regulates internalization of the chemokine receptor. Phosphorylates rhodopsin (RHO) (in vitro) and a non G-protein-coupled receptor, LRP6 during Wnt signaling (in vitro).
Product Categories/Family for anti-GRK5 antibody	Cardiovascular; Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885349
NCBI GeneID	2869
NCBI Accession #	NP_005299.1
NCBI GenBank Nucleotide #	NM_005308.2
UniProt Accession #	P34947; Q5T059; D3DRD0
Molecular Weight	67,787 Da
NCBI Official Full Name	G protein-coupled receptor kinase 5
NCBI Official Synonym Full Names	G protein-coupled receptor kinase 5
NCBI Official Symbol	GRK5
NCBI Official Synonym Symbols	GPRK5
NCBI Protein Information	G protein-coupled receptor kinase 5
UniProt Protein Name	G protein-coupled receptor kinase 5
UniProt Gene Name	GRK5
UniProt Synonym Gene Names	GPRK5

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.