

GRK6 Rabbit pAb

Catalog # AP97660

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P43250
Other Accession	P43250
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65991
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GRK6
Epitope Specificity	181-280/576
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain. Contains 1 RGS domain.
Post-translational modifications	It is uncertain whether palmitoylation is on Cys-561 and/or Cys-562 and/or Cys-565.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Heterotrimeric G protein-mediated signal transduction is a dynamically regulated process with the intensity of signal decreasing over time despite the continued presence of the agonist. This phenomenon, referred to as agonist-mediated desensitization, involves phosphorylation of the receptor by two classes of enzymes. The first class is comprised of the second messenger-regulated kinases, such as c-AMP dependent protein kinase A and protein kinase C. The second class includes the G protein-coupled receptor kinases (GRKs). At least seven members of the GRK family have been identified. These include rhodopsin kinase (GRK 1), two forms of Beta-adrenergic receptor kinase: GRK 2 (Beta ARK, Beta ARK1) and GRK 3 (Beta ARK2), IT-11 (GRK 4), GRK 5, GRK 6 and GRK 7. Phosphorylation of receptors by GRKs appears to be strictly dependent on the receptor being in its agonist-activated state.

Additional Information

Gene ID	2870
Other Names	GPRK6; GRK6_HUMAN; GRK6; G protein-coupled receptor kinase GRK6; 2.7.11.16; GRK6_MOUSE; GRK6_RAT; G protein-coupled receptor kinase 6
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	GRK6
Synonyms	GPRK6
Function	Specifically phosphorylates the activated forms of G protein- coupled receptors (PubMed: 19423652 , PubMed: 20048153). Such receptor phosphorylation initiates beta-arrestin-mediated receptor internalization, and signaling events leading to their desensitization (PubMed: 19423652 , PubMed: 20048153). Seems to be involved in the desensitization of D2-like dopamine receptors in striatum and chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis (PubMed: 20048153). Phosphorylates rhodopsin (RHO) (in vitro) and a non G protein-coupled receptor: LRP6 during Wnt signaling (in vitro) (PubMed: 19801552).
Cellular Location	Membrane; Lipid-anchor.
Tissue Location	Widely expressed..

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