

Product Name: GRK2 (12K5) Rabbit Monoclonal Antibody
Catalog #: AMRe11780

Summary

Production Name	GRK2 (12K5) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	GRK2
Alternative Names	GRK2; BARK1; FLJ16718; BETA-ARK1; ADRBK1;
Gene ID	156.0
SwissProt ID	P25098.A synthetic peptide of human GRK2

Application

Dilution Ratio	WB: 1:1000
Molecular Weight	80kDa

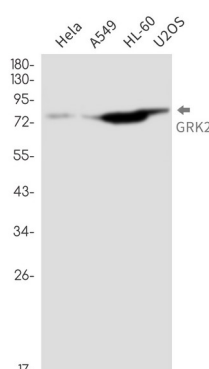
Background

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GRK2 kinase activity and cellular localization are tightly regulated by interactions with activated receptors, G-beta and G-gamma subunits, adaptor proteins, phospholipids, caveolin and calmodulin, as well as by phosphorylation. PKC phosphorylation enhances GRK2 activity by promoting its membrane localization and by abolishing the inhibitory association of calmodulin. Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them (PubMed: [19715378](http://www.uniprot.org/citations/19715378)). Key regulator of LPAR1 signaling (PubMed: [19306925](http://www.uniprot.org/citations/19306925)). Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor (PubMed: [19306925](http://www.uniprot.org/citations/19306925)). Desensitizes LPAR1 and LPAR2 in a phosphorylation- independent manner (PubMed: [19306925](http://www.uniprot.org/citations/19306925)). 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 (By similarity). Inhibits relaxation of airway smooth muscle in response to blue light (PubMed: [30284927](http://www.uniprot.org/citations/30284927)).

Research Area

Image Data



Western blot detection of GRK2 in HeLa, A549, HL-60, U2OS cell lysates using GRK2 antibody (1:1000 diluted).

Note

For research use only.