

GRK2 Rabbit mAb

Catalog # AP76516

Product Information

Application	WB, IP
Primary Accession	P25098
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	79574

Additional Information

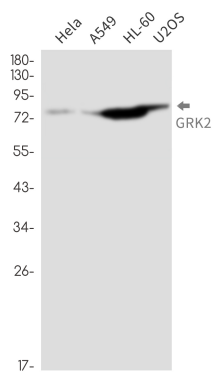
Gene ID	156
Other Names	GRK2
Dilution	WB~~1/500-1/1000 IP~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	GRK2 (HGNC:289)
Synonyms	ADRBK1, BARK, BARK1
Function	Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them (PubMed: 19715378). Phosphorylates catecholamine-activated ADRB2 to regulate physiological cardiomyocyte contraction rate responses (By similarity). Also phosphorylates ligand- bound C3a and C5a anaphylatoxin receptors (C3AR1 and C5AR1, respectively), leading to receptor desensitization (PubMed: 21799898 , PubMed: 23077507). Key regulator of LPAR1 signaling (PubMed: 19306925). Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor (PubMed: 19306925). Desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner (PubMed: 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).

Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:P26817}. Cell membrane {ECO:0000250 UniProtKB:P21146}. Postsynapse {ECO:0000250 UniProtKB:P26817}. Presynapse {ECO:0000250 UniProtKB:P26817}
Tissue Location	Expressed in peripheral blood leukocytes.

Images



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