

GRK2 Rabbit mAb

Catalog # AP77485

Product Information

Application	WB, IHC-P
Primary Accession	P25098
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human GRK2
Purification	Affinity Chromatography
Calculated MW	79574

Additional Information

Gene ID	156
Other Names	GRK2
Dilution	WB~~1/500-1/1000 IHC-P~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
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](#)).

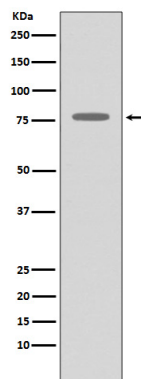
Cellular Location

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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