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GRK 1 Polyclonal Antibody

Catalog # AP70246

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q15835
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63526

Additional Information

Gene ID	6011
Other Names	GRK1; RHOK; Rhodopsin kinase; RK; G protein-coupled receptor kinase 1
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

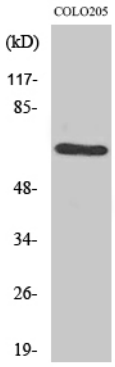
Protein Information

Name	GRK1 (HGNC:10013)
Synonyms	RHOK
Function	Retina-specific kinase involved in the regulation of phototransduction, playing a key role in terminating the light- activated rhodopsin (RHO) signal in rod photoreceptors. Following light activation, it phosphorylates RHO, thereby promoting binding of S- arrestin (SAG) which then blocks transducin-mediated opsin signaling (PubMed:15946941). This rapid desensitization is essential for scotopic vision and permits rapid adaptation to changes in illumination (By similarity). May play a role in the maintenance of the outer nuclear layer in the retina (By similarity).
Cellular Location	Membrane {ECO:0000250|UniProtKB:P28327}; Lipid- anchor {ECO:0000250|UniProtKB:P28327}. Cell projection, cilium, photoreceptor outer segment {ECO:0000250|UniProtKB:Q9WVL4} Note=Subcellular location is not affected by light or dark conditions {ECO:0000250|UniProtKB:Q9WVL4}
Tissue Location	Retinal-specific. Expressed in rods and cones cells.

Background

Retina-specific kinase involved in the signal turnoff via phosphorylation of rhodopsin (RHO), the G protein-coupled receptor that initiates the phototransduction cascade. This rapid desensitization is essential for scotopic vision and permits rapid adaptation to changes in illumination.

Images



Western Blot analysis of various cells using GRK 1 Polyclonal Antibody

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