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# GRK 1 Polyclonal Antibody

Catalog # AP70246

## Product Information

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

## Additional Information

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|---|---|
| **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

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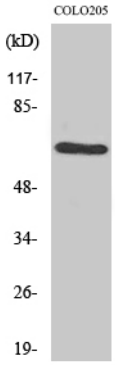
|---|---|
| **Name** | GRK1 ( HGNC:10013) |
| **Synonyms** | RHOK |
| **Function** | Retina-specific kinase involved in the signal turnoff via phosphorylation of rhodopsin (RHO), the G protein- coupled receptor that initiates the phototransduction cascade (PubMed:15946941). This rapid desensitization 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