

Mouse Grk1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14844a**Specification**

Mouse Grk1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O9WVL4](#)**Mouse Grk1 Antibody (N-term) Blocking Peptide - Additional Information****Other Names**

Rhodopsin kinase, RK, G protein-coupled receptor kinase 1, Grk1, Rhok

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Grk1 Antibody (N-term) Blocking Peptide - Protein Information**Name** Grk1 {ECO:0000312|MGI:MGI:1345146}**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:10097103, PubMed:10704496, PubMed:26427409). This rapid desensitization is essential for scotopic vision and permits rapid adaptation to changes in illumination (PubMed:10097103, PubMed:10704496). May play a role in the maintenance of the outer nuclear layer in the retina (PubMed:26427409).

Cellular Location

Membrane {ECO:0000250|UniProtKB:P28327}; Lipid-anchor {ECO:0000250|UniProtKB:P28327}. Cell projection, cilium, photoreceptor outer segment Note=Subcellular location is not affected by light or dark conditions

Tissue Location

Expressed in the retina; primarily located in rod outer segments of retina photoreceptor cells (at protein level) (PubMed:11717351, PubMed:15961391, PubMed:21504899). Also detected in cone photoreceptor cells (at protein level) (PubMed:10704496)

Mouse Grk1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Mouse Grk1 Antibody (N-term) Blocking Peptide - Images

Mouse Grk1 Antibody (N-term) Blocking Peptide - Background

Phosphorylates rhodopsin thereby initiating its deactivation.