

GRK2 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52726

Specification

GRK2 Antibody - Product Information

Application	WB
Primary Accession	P25098
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	80 KDa

GRK2 Antibody - Additional Information

Gene ID 156

Other Names

ADRBK 1;ADRBK1;Adrenergic beta receptor kinase 1;Adrenergic beta receptor kinase 1; ARBK1_HUMAN;BARK 1;BARK;BARK1;Beta adrenergic receptor kinase 1;Beta ARK 1;Beta ARK1; Beta-adrenergic receptor kinase 1;Beta-ARK-1;FLJ16718;G Protein Coupled Receptor Kinase 2;G protein dependent receptor kinase 2;G-protein coupled receptor kinase 2;GRK 2;GRK2.

Dilution

WB~~1:500

Format

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50%,glycerol

Storage

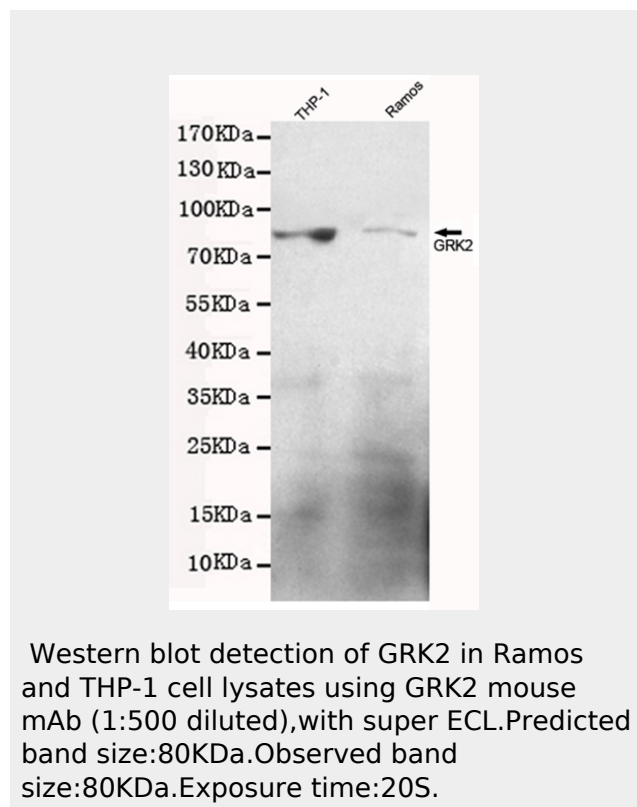
Store at -20 °C.Stable for 12 months from date of receipt

GRK2 Antibody - Protein Information

Name GRK2 ([HGNC:289](#))

Synonyms ADRBK1, BARK, BARK1

Function



GRK2 Antibody - Background

Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them. Key regulator of LPAR1 signaling. Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor. Desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner.

GRK2 Antibody - References

- Benovic J.L.,et al.FEBS Lett. 283:122-126(1991).
- Chuang T.T.,et al.J. Biol. Chem. 267:6886-6892(1992).
- Penn R.B.,et al.J. Biol. Chem. 269:14924-14930(1994).
- Aragay A.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:2985-2990(1998).

Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them (PubMed:19715378). 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).

Oppermann M., et al. J. Biol. Chem. 274:8875-8885(1999).

Cellular Location

Cytoplasm
{ECO:0000250|UniProtKB:P21146}. Cell membrane
{ECO:0000250|UniProtKB:P21146}

Tissue Location

Expressed in peripheral blood leukocytes.

GRK2 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)