

GRK2 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS17170**Specification**

GRK2 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P25098
Other Accession	156
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	79574
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

GRK2 Antibody - Additional Information**Gene ID** 156**Other Names**

ADRBK1, BARK1, Beta-ARK-1, BETA-ARK1, BARK, Betaark1, GRK2

Target/Specificity

Human GRK2

Reconstitution & Storage

PBS, pH 7.4, 0.03% Proclin 300, 50% glycerol. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

GRK2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GRK2 Antibody - 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). Key regulator of LPAR1 signaling (PubMed:19306925). Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor (PubMed:<a href="http://www.uniprot.org/citations/19306925"

target="_blank">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

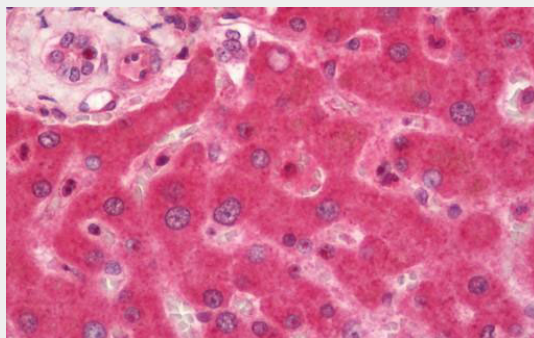
Expressed in peripheral blood leukocytes.

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](#)

GRK2 Antibody - Images



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)

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