

Anti-GRK2 ADRBK1 Rabbit Monoclonal Antibody
Catalog # ABO13397**Specification****Anti-GRK2 ADRBK1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC
Primary Accession	P25098
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-GRK2 ADRBK1 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.

Anti-GRK2 ADRBK1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 156

Other Names

Beta-adrenergic receptor kinase 1, Beta-ARK-1, 2.7.11.15, G-protein coupled receptor kinase 2 {ECO:0000312|HGNC:HGNC:289}, GRK2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=289) target="_blank">HGNC:289), ADRBK1, BARK, BARK1

Calculated MW

79574 MW KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200

Subcellular Localization

Cytoplasm. Cell membrane.

Tissue Specificity

Expressed in peripheral blood leukocytes..

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human GRK2

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term

storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-GRK2 ADRBK1 Rabbit Monoclonal 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](http://www.uniprot.org/citations/19715378)). Key regulator of LPAR1 signaling (PubMed:[19306925](http://www.uniprot.org/citations/19306925)). Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor (PubMed:[19306925](http://www.uniprot.org/citations/19306925)). Desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner (PubMed:[19306925](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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

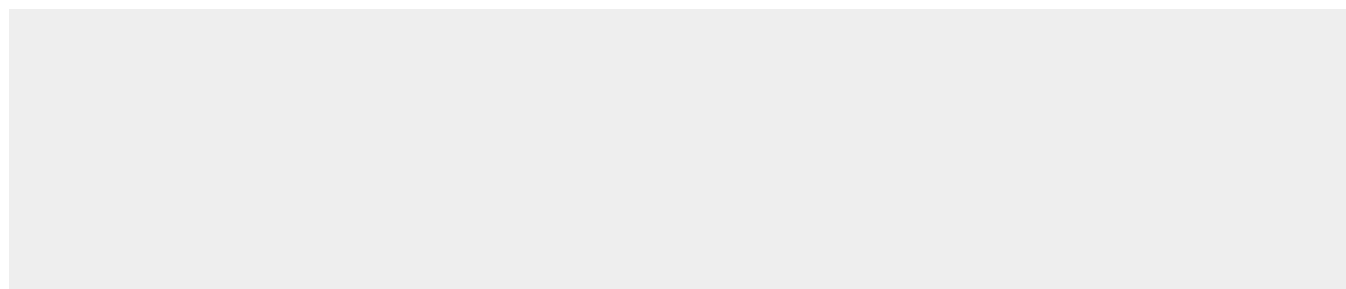
Expressed in peripheral blood leukocytes.

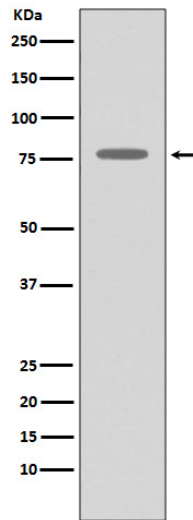
Anti-GRK2 ADRBK1 Rabbit Monoclonal Antibody - Protocols

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](#)

Anti-GRK2 ADRBK1 Rabbit Monoclonal Antibody - Images





Western blot analysis of GRK2 expression in THP-1 cell lysate.