

KD-Validated Anti-GRK2 Rabbit Polyclonal Antibody
Rabbit polyclonal antibody
Catalog # AGI2114**Specification****KD-Validated Anti-GRK2 Rabbit Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P25098
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 80 kDa, observed, 75 kDa kDa
Gene Name	GRK2
Aliases	GRK2; G Protein-Coupled Receptor Kinase 2; BARK1; ADRBK1; Beta-Adrenergic Receptor Kinase 1; EC 2.7.11.15; Beta-ARK-1; Adrenergic, Beta, Receptor Kinase 1; G-Protein Coupled Receptor Kinase 2; Adrenergic Beta Receptor Kinase 1; BETA-ARK1; EC 2.7.11.47; BARK
Immunogen	A synthesized peptide derived from human GRK2

KD-Validated Anti-GRK2 Rabbit Polyclonal 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	

KD-Validated Anti-GRK2 Rabbit Polyclonal 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).

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

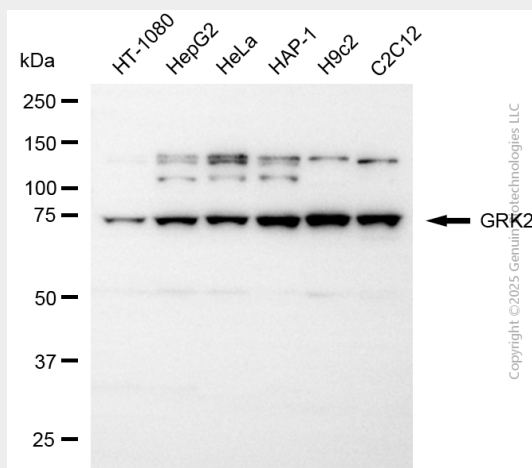
Expressed in peripheral blood leukocytes.

KD-Validated Anti-GRK2 Rabbit Polyclonal Antibody - Protocols

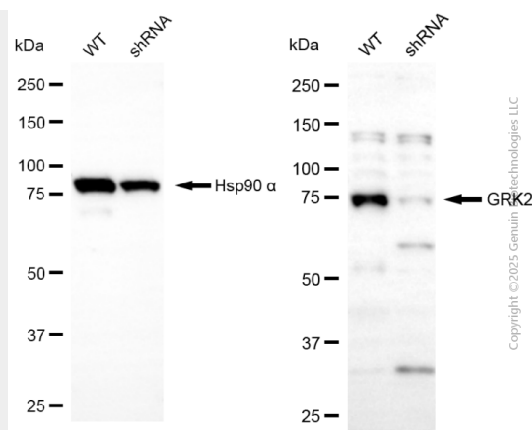
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-GRK2 Rabbit Polyclonal Antibody - Images



Western blotting analysis using anti-GRK2 antibody (Cat#AGI2114). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-GRK2 antibody (Cat#AGI2114, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-GRK2 antibody (Cat#AGI2114). GRK2 expression in wild-type (WT) and GRK2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-GRK2 antibody (Cat#AGI2114, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.