

# GRK 2 Polyclonal Antibody

Catalog # AP70248

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P25098</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	79574

## Additional Information

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<b>Gene ID</b>	156
<b>Other Names</b>	ADRBK1; BARK; BARK1; GRK2; Beta-adrenergic receptor kinase 1; Beta-ARK-1; G-protein coupled receptor kinase 2
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	GRK2 ( <a href="#">HGNC:289</a> )
<b>Synonyms</b>	ADRBK1, BARK, BARK1
<b>Function</b>	Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them (PubMed: <a href="#">19715378</a> ). Key regulator of LPAR1 signaling (PubMed: <a href="#">19306925</a> ). Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor (PubMed: <a href="#">19306925</a> ). Desensitizes LPAR1 and LPAR2 in a phosphorylation- independent manner (PubMed: <a href="#">19306925</a> ). 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: <a href="#">30284927</a> ).
<b>Cellular Location</b>	Cytoplasm {ECO:0000250 UniProtKB:P26817}. Cell membrane {ECO:0000250 UniProtKB:P21146}. Postsynapse {ECO:0000250 UniProtKB:P26817}. Presynapse

{ECO:0000250|UniProtKB:P26817}

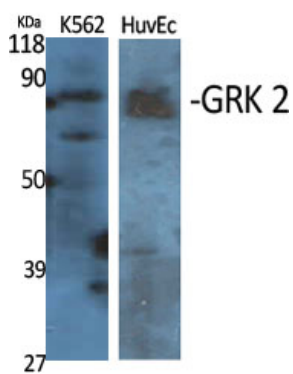
## Tissue Location

Expressed in peripheral blood leukocytes.

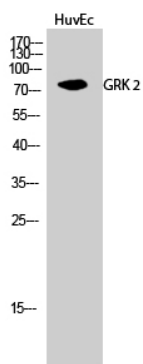
## Background

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 (PubMed:[19306925](#), PubMed:[19715378](#)). 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).

## Images



Western Blot analysis of various cells using GRK 2 Polyclonal Antibody



Western Blot analysis of HuvEc cells using GRK 2 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.