

**Anti-GRK2 Picoband Antibody**  
**Catalog # ABO12950****Specification**

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**Anti-GRK2 Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P25098</a> |
| Host              | Rabbit                 |
| Reactivity        | Mouse, Rat             |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for GRK2 detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-GRK2 Picoband 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](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=289)) HGNC:289), ADRBK1, BARK, BARK1

**Application Details**

Western blot, 0.1-0.5 µg/ml

**Subcellular Localization**

Cytoplasm.

**Tissue Specificity**

Expressed in peripheral blood leukocytes.

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence of human GRK2 (DSDPELVQWKELRDYREAQLVQRPVKMKNK).

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

At -20°C; for one year. After reconstitution, at 4°C; for one month. It can also be

**aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and thawing.**

## **Anti-GRK2 Picoband 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:<a href="http://www.uniprot.org/citations/19715378" target="\_blank">19715378</a>). Key regulator of LPAR1 signaling (PubMed:<a href="http://www.uniprot.org/citations/19306925" target="\_blank">19306925</a>). 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</a>). Desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner (PubMed:<a href="http://www.uniprot.org/citations/19306925" target="\_blank">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="http://www.uniprot.org/citations/30284927" target="\_blank">30284927</a>).

### **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**

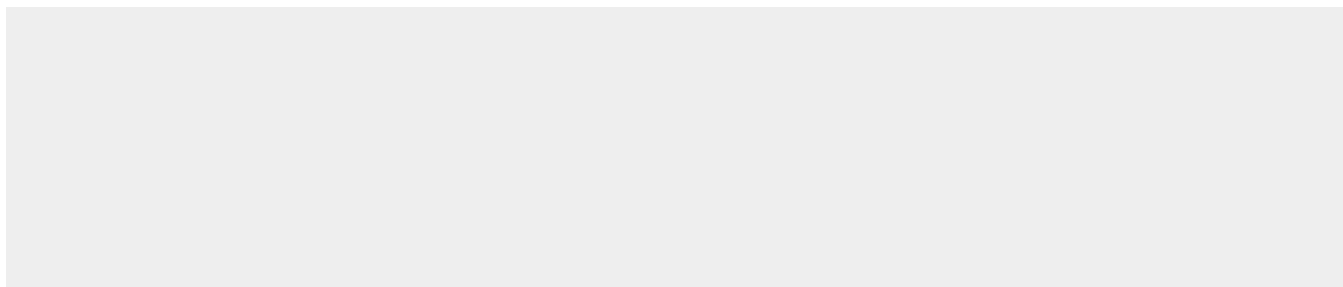
Expressed in peripheral blood leukocytes.

## **Anti-GRK2 Picoband 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 Picoband Antibody - Images**



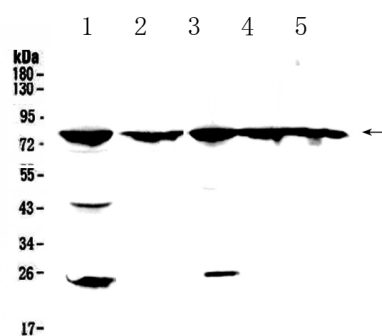


Figure 1. Western blot analysis of GRK2 using anti-GRK2 antibody (ABO12950).