

Datasheet for ABIN6259807  
**anti-GRK2 antibody (Internal Region)**[Go to Product page](#)

## 4 Images

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | GRK2 (ADRBK1)  |
| Binding Specificity: | Internal Region  |
| Reactivity:          | Human, Mouse, Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This GRK2 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC) |

## Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | A synthesized peptide derived from human GRK2, corresponding to a region within the internal amino acids.                 |
| Isotype:              | IgG   |
| Specificity:          | GRK2 Antibody detects endogenous levels of total GRK2.  |
| Predicted Reactivity: | Pig,Bovine,Horse,Sheep,Dog,Chicken  |
| Purification:         | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

## Target Details

|         |               |
|---------|---------------|
| Target: | GRK2 (ADRBK1) |
|---------|---------------|

## Target Details

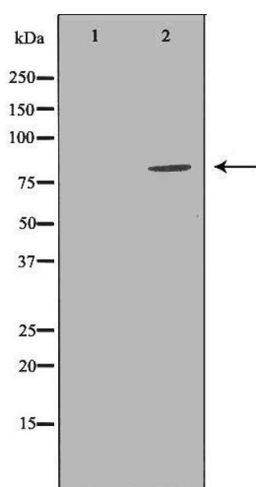
|                   |  |
|-------------------|--|
| Alternative Name: | GRK2 ( <a href="#">ADRBK1 Products</a> )   |
| Background:       | <p>Description: Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of 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).</p> <p>Gene: GRK2</p> |
| Molecular Weight: | 80kDa  |
| Gene ID:          | 156  |
| UniProt:          | <a href="#">P25098</a>   |
| Pathways:         | <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">G-protein mediated Events</a> , <a href="#">Interaction of EGFR with phospholipase C-gamma</a> , <a href="#">Thromboxane A2 Receptor Signaling</a>  |

## Application Details

|                    |   |
|--------------------|---|
| Application Notes: | WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000 |
| Restrictions:      | For Research Use only   |

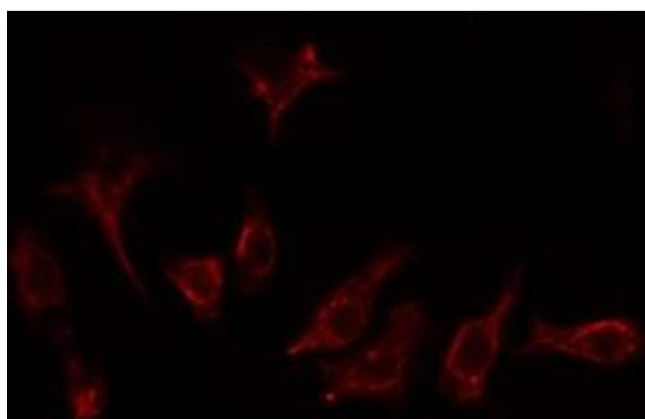
## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 1 mg/mL  |
| Buffer:            | Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.                  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Store at -20 °C. Stable for 12 months from date of receipt.  |



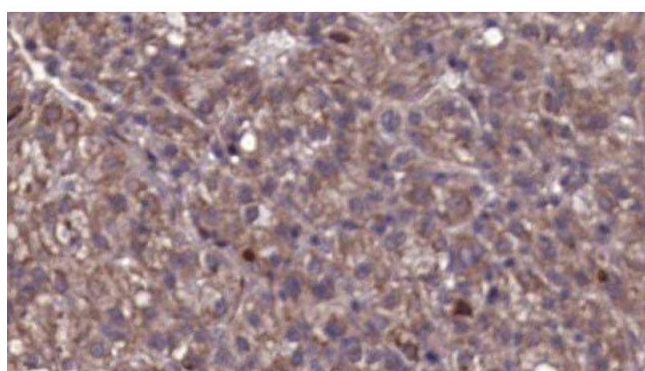
### Western Blotting

**Image 1.** Western blot analysis of extracts of Jurkat, using ADRBK1 antibody. The lane on the left is treated with the antigen-specific peptide.



### Immunofluorescence (fixed cells)

**Image 2.** ABIN6276801 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Cat.# S0006), diluted at 1/600, was used as secondary antibody.



### Immunohistochemistry

**Image 3.** ABIN6276801 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6259807.