

**GRK6 Antibody**  
**Catalog # ASC11746****Specification**

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**GRK6 Antibody - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	<a href="#">P43250</a>
Other Accession	<a href="#">NP_001004106</a> , <a href="#">51896039</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 63 kDa

Application Notes	<b>Observed: 63 kDa KDa</b> <b>GRK6 antibody can be used for detection of GRK6 by Western blot at 1 - 2 µg/ml.</b> <b>Antibody can also be used for Immunohistochemistry starting at 5 µg/mL.</b> <b>For immunofluorescence start at 20 µg/mL.</b>
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**GRK6 Antibody - Additional Information**

Gene ID **2870**

**Target/Specificity**

GRK6; GRK6 antibody is human, mouse and rat reactive. Multiple isoforms of GRK6 are known to exist. This antibody is predicted to not cross-react with other members of the GRK protein family.

**Reconstitution & Storage**

GRK6 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

GRK6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**GRK6 Antibody - Protein Information**

**Name** GRK6

**Synonyms** GPRK6

**Function**

Specifically phosphorylates the activated forms of G protein- coupled receptors. Such receptor phosphorylation initiates beta- arrestin-mediated receptor desensitization, internalization, and signaling events leading to their desensitization. Seems to be involved in the desensitization of D2-like dopamine receptors in striatum and chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis (By similarity). Phosphorylates rhodopsin (RHO) (in vitro) and a non G-protein-coupled receptor: LRP6 during Wnt signaling (in vitro).

**Cellular Location**

Membrane; Lipid-anchor.

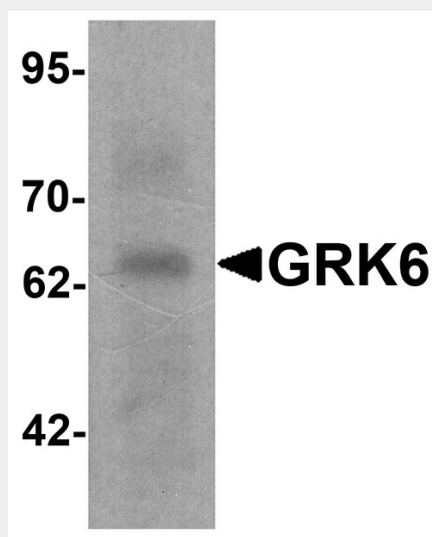
**Tissue Location**

Widely expressed..

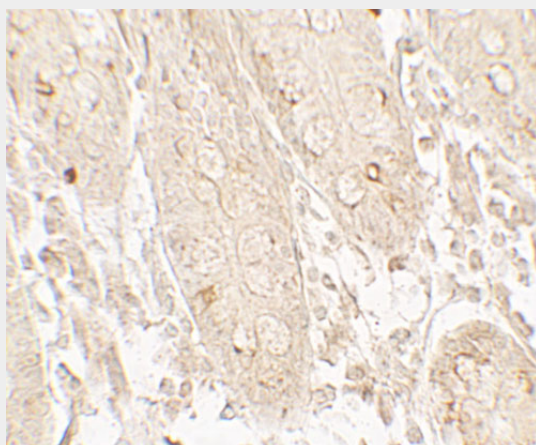
**GRK6 Antibody - Protocols**

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

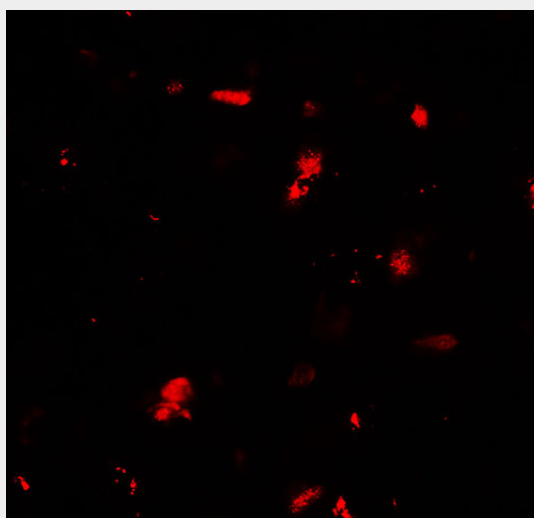
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GRK6 Antibody - Images**

Western blot analysis of GRK6 in rat small intestine tissue lysate with GRK6 antibody at 1 µg/ml.



Immunohistochemistry of GRK6 in human small intestine tissue with GRK6 antibody at 5 µg/mL.



Immunofluorescence of GRK6 in human small intestine tissue with GRK6 antibody at 20 µg/mL.

### **GRK6 Antibody - Background**

The G protein-coupled receptor kinases (GRKs) are a versatile family of kinases that play a critical role in cancer metastasis through their regulation of G-protein coupled receptors (GPCRs) involved in growth factor mediated cell migration (1,2). Phosphorylation of receptors by GRKs appears to be strictly dependent on the receptor being in its agonist-activated state (1). GRK6 is one of 7 members of the GRK serine/threonine kinase subfamily, which has been shown to modulate the Wnt signaling pathway via phosphorylation of LRP6 (3,4), and the insulin-like growth factor signaling pathway (4). GRK6 may also play a role in immune system function (5).

### **GRK6 Antibody - References**

Inglese J, Freedman NJ, Koch WJ, et al. Structure and mechanism of the G protein-coupled receptor kinases. *J. Biol. Chem.* 1993; 268:23735-8.  
Raghuwanshi SK, Smith N, Rivers EJ, et al. G protein-coupled receptor kinase 6 deficiency promotes angiogenesis, tumor progression, and metastasis. *J. Immunol.* 2013; 190:5329-36.  
Benovic JL and Gomez J. Molecular cloning and expression of GRK6. A new member of the G protein-coupled receptor kinase family. *J. Biol. Chem.* 1993; 268:19521-7.  
Chen M, Philipp M, Wang J, et al. G Protein-coupled receptor kinases phosphorylate LRP6 in the Wnt pathway. *J. Biol. Chem.* 2009; 284:35040-8.