

For Research Use Only

# GRK5 Polyclonal antibody

Catalog Number: 17032-1-AP

Featured Product

8 Publications



## Basic Information

**Catalog Number:**

17032-1-AP

**Size:**

150ul , Concentration: 500 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG10511

**GenBank Accession Number:**

BC064506

**GeneID (NCBI):**

2869

**UNIPROT ID:**

P34947

**Full Name:**

G protein-coupled receptor kinase 5

**Calculated MW:**

590 aa, 68 kDa

**Observed MW:**

70 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HeLa cells, human skeletal muscle tissue, HepG2 cells mouse skeletal muscle tissue, rat skeletal muscle tissue

**IHC :** human skeletal muscle tissue, mouse heart tissue

## Background Information

GRK5, also named as GPRK5, belongs to the protein kinase superfamily, AGC Ser/Thr protein kinase family and GPRK subfamily. It is Serine/threonine kinase that phosphorylates preferentially the activated forms of a variety of G-protein-coupled receptors (GPCRs). Phosphorylation of ARRB1 by GRK5 inhibits G-protein independent MAPK1/MAPK3 signaling downstream of 5HT<sub>4</sub>-receptors. GRK5 is crucial for proper neuronal morphogenesis and the establishment of functional neuronal circuitry.

## Notable Publications

Author	Pubmed ID	Journal	Application
Masakazu Toya	34006987	Sci Rep	IHC,IF
Takuya Sueishi	31696655	Arthritis Rheumatol	IHC,IF
Xiaobai He	32112783	Biochim Biophys Acta Mol Cell Res	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

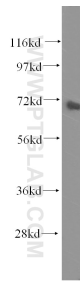
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

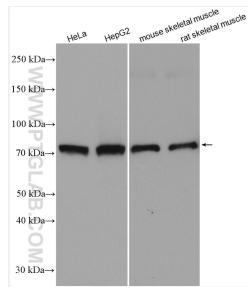
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

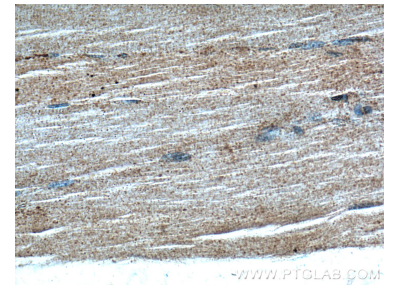
## Selected Validation Data



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 17032-1-AP (GRK5 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 17032-1-AP (GRK5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 17032-1-AP (GRK5 Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 17032-1-AP (GRK5 Antibody) at dilution of 1:200 (under 10x lens).