

For Research Use Only

# GRK3 Polyclonal antibody

Catalog Number: 13727-1-AP



## Basic Information

<b>Catalog Number:</b> 13727-1-AP	<b>GenBank Accession Number:</b> BC036797	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 157	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> adrenergic, beta, receptor kinase 2	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 688 aa, 80 kDa	
<b>Immunogen Catalog Number:</b> AG4685	<b>Observed MW:</b> 70 kDa, 90 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : K-562 cells, HL-60 cells IHC : mouse brain tissue, human colon tissue
<b>Species Specificity:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

GRK3 (G protein coupled receptor kinase 3), also known as ADRBK2 or BARK2, belongs to the G protein coupled receptor kinases (GRKs) family. GRKs are serine/threonine kinases that regulate a large and diverse class of G-protein coupled receptors (GPCRs). GRKs have been shown to play a critical role in the outcome of a variety of physiological and pathophysiological processes including chemotaxis, signaling, migration, inflammatory gene expression and so on (PMID: 28950947, 29483837). GRK3 was identified as a negative regulator of CXCL12/CXCR4 signaling, and has also been shown to be overexpressed in human prostate cancer and found to promote tumor growth and metastasis by enhancing angiogenesis (PMID: 23935208, 24434559). GRK3 has a molecular mass of 75-80 kDa, and also can be ubiquitinated (PMID: 20596523).

## Storage

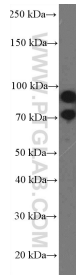
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

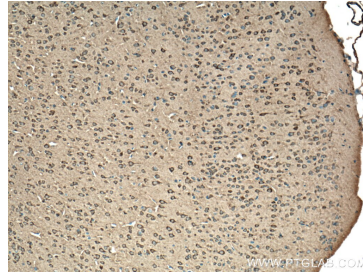
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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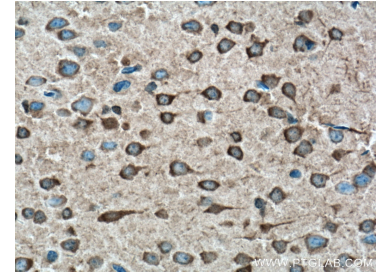
## Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 13727-1-AP (GRK3 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13727-1-AP (GRK3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13727-1-AP (GRK3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).