

GRK3 Polyclonal antibody

Catalog Number: 13727-1-AP

Basic Information

Catalog Number: 13727-1-AP	GenBank Accession Number: BC036797	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 157	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P35626	
Isotype: IgG	Full Name: adrenergic, beta, receptor kinase 2	
Immunogen Catalog Number: AG4685	Calculated MW: 688 aa, 80 kDa	
	Observed MW: 70 kDa, 90 kDa	

Applications

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

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

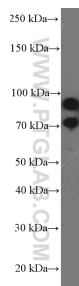
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
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E: proteintech@ptglab.com
W: ptglab.com

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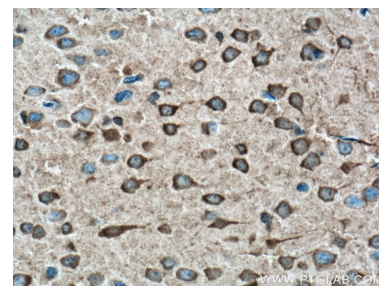
Selected Validation Data



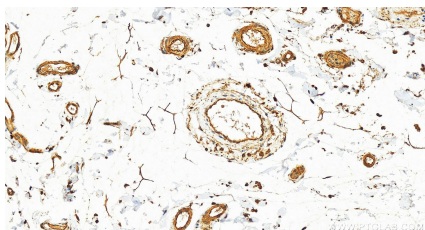
K-562 cells were subjected to SDS PAGE followed by western blot with 13727-1-AP (GRK3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 13727-1-AP (GRK3 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).