

For Research Use Only

GRK2 Polyclonal antibody

Catalog Number: 13990-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

13990-1-AP

Size:

150ul, Concentration: 1200 µg/ml by Nanodrop and 653 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5071

GenBank Accession Number:

BC037963

GeneID (NCBI):

156

Full Name:

adrenergic, beta, receptor kinase 1

Calculated MW:

689 aa, 80 kDa

Observed MW:

80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

Applications

Tested Applications:

FC, IHC, IP, WB, ELISA

Cited Applications:

CoIP, IHC, IP, WB

Species Specificity:

human

Cited Species:

human, 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 : HL-60 cells, Jurkat cells

IP : HL-60 cells,

IHC : human lymphoma tissue,

Background Information

GRK2 (G-protein coupled receptor kinase 2) is also named as ADRBK1 (Beta-adrenergic receptor kinase 1), BARK, and BARK1. G-protein-coupled receptors (GPCRs) transmit extracellular signals across the cell membrane. GPCR kinases (GRKs) desensitize GPCR signals in the cell membrane. GRK2 translocation from the cytoplasm to the cell membrane in response to extracellular signals is critical to the function of the protein, where GRK phosphorylation is an important component of its translocation to the membrane.(PMID:27412951)

Notable Publications

Author	Pubmed ID	Journal	Application
Fan Yang	26347956	Nat Commun	WB
Chen Zhang	25279970	Cancer Biother Radiopharm	WB
Qiyin Zhou	35641493	Nat Commun	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

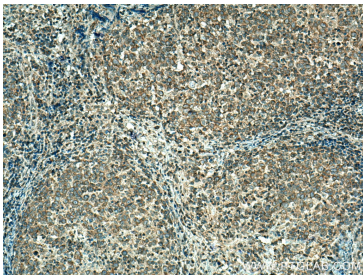
For technical support and original validation data for this product please contact:

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

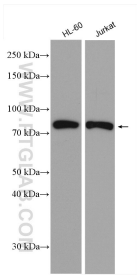
E: proteintech@ptglab.com
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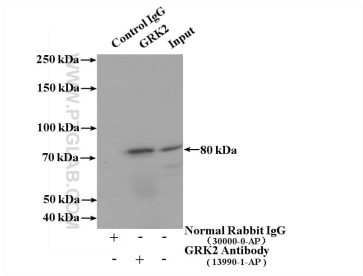
Selected Validation Data



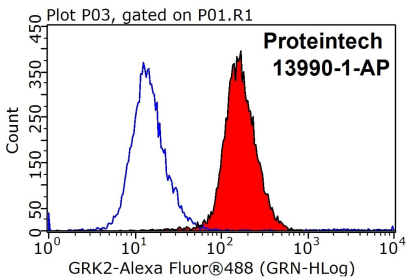
Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 13990-1-AP (GRK2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 13990-1-AP (GRK2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-GRK2 (IP:13990-1-AP, 4ug; Detection:13990-1-AP 1:1000) with HL-60 cells lysate 3040ug.



1X10⁶ HeLa cells were stained with 0.2ug GRK2 antibody (13990-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.