



## Rabbit Anti-phospho-GRK2 (Ser29) antibody

SL16683R

<b>Product Name:</b>	phospho-GRK2 (Ser29)
<b>Chinese Name:</b>	磷酸化G蛋白偶合受体激酶2抗体
<b>Alias:</b>	GRK2 (phospho S29); p-GRK2 (phospho S29); G-protein coupled receptor kinase 2; ADRBK 1; ADRBK1; Adrenergic beta receptor kinase 1; BARK 1; BARK; BARK1; Beta adrenergic receptor kinase 1; Beta ARK 1; Beta ARK1; G Protein Coupled Receptor Kinase 2; G protein dependent receptor kinase 2; FLJ16718; GRK 2; ARBK1 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	76kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthesised phosphopeptide derived from human GRK2 around the phosphorylation site of Ser29:RA(p-S)KK
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The product of this gene phosphorylates the beta-2-adrenergic receptor and appears to

mediate agonist-specific desensitization observed at high agonist concentrations. This protein is an ubiquitous cytosolic enzyme that specifically phosphorylates the activated form of the beta-adrenergic and related G-protein-coupled receptors. Abnormal coupling of beta-adrenergic receptor to G protein is involved in the pathogenesis of the failing heart. [provided by RefSeq].

**Function:**

Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them. Key regulator of LPAR1 signaling. Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor. Desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner.

**Subunit:**

Interacts with GIT1 (By similarity). Interacts with, and phosphorylates chemokine-stimulated CCR5. Interacts with ARRB1. Interacts with LPAR1 and LPAR2. Interacts with RALA in response to LPAR1 activation. ADRBK1 and RALA mutually inhibit each other's binding to LPAR1.

**Tissue Specificity:**

Expressed in peripheral blood leukocytes.

**Similarity:**

Belongs to the protein kinase superfamily.  
AGC Ser/Thr protein kinase family.  
GPRK subfamily.  
Contains 1 AGC-kinase C-terminal domain.  
Contains 1 PH domain.  
Contains 1 protein kinase domain.  
Contains 1 RGS domain.

**SWISS:**

P25098

**Gene ID:**

156

**Database links:**

[Entrez Gene: 156](#) Human

[Entrez Gene: 25238](#) Rat

[Omim: 109635](#) Human

[SwissProt: P25098](#) Human

[SwissProt: Q99MK8](#) Mouse

[SwissProt: P26817](#) Rat

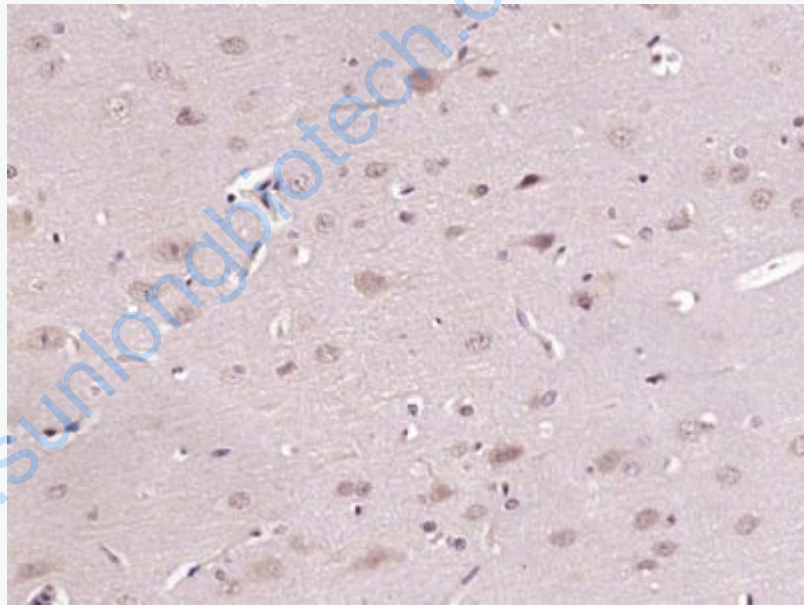
[Unigene: 83636](#) Human

[Unigene: 254144](#) Mouse

[Unigene: 13010](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GRK2 (Ser29)) Polyclonal Antibody, Unconjugated (SL16683R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

