



Rabbit Anti-phospho-GRK2 (Ser670) antibody

SL16682R

Product Name:	phospho-GRK2 (Ser670)
Chinese Name:	磷酸化G蛋白偶合受体激酶2抗体
Alias:	GRK2 (phospho S670); p-GRK2 (phospho S670); 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-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.
Molecular weight:	76kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human GRK2 around the phosphorylation site of Ser670:PR(p-S)PV
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed

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

Product Detail:

[SwissProt: Q99MK8](#) Mouse

[SwissProt: P26817](#) Rat

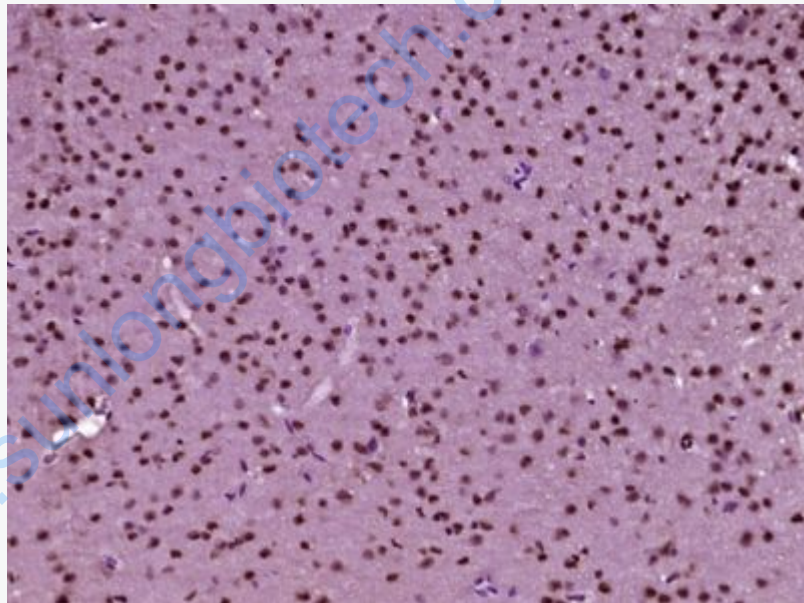
[Unigene: 83636](#) Human

[Unigene: 254144](#) Mouse

[Unigene: 13010](#) Rat

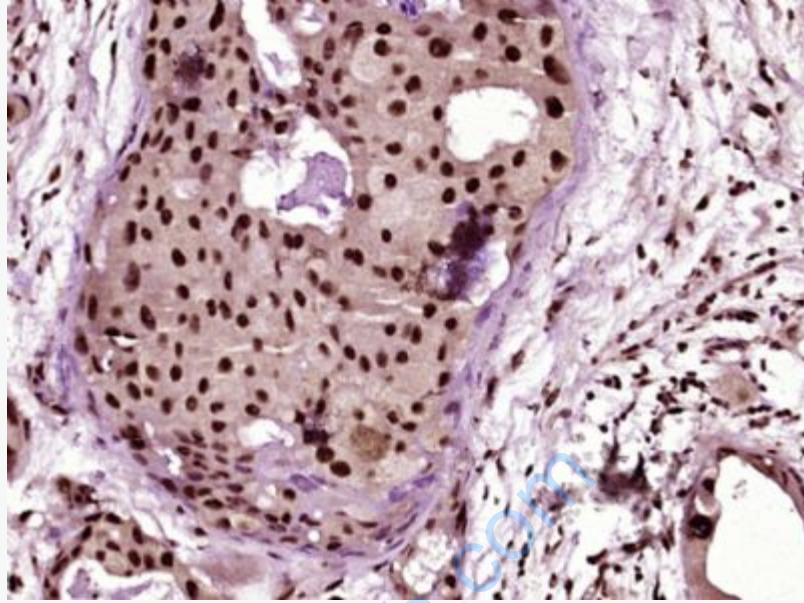
Important Note:

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

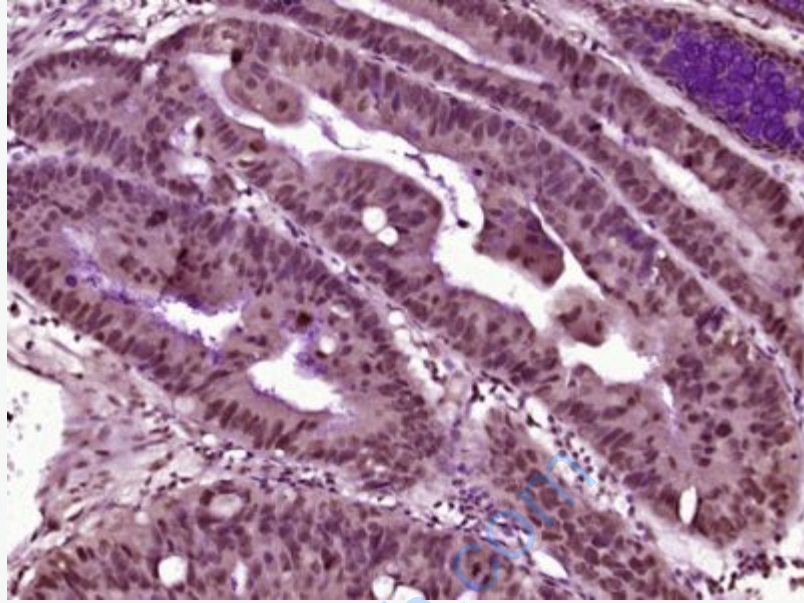


Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (phospho-GRK2 (Ser670)) Polyclonal Antibody, Unconjugated (SL16682R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human breast carcinoma); 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 (phospho-GRK2 (Ser670)) Polyclonal Antibody, Unconjugated (SL16682R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human colon carcinoma); 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 (phospho-GRK2 (Ser670)) Polyclonal Antibody, Unconjugated (SL16682R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.