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Rabbit Anti-GRK2 antibody

SL1209R

Product Name	GRK2
Chinese Name	G 蛋白偶合受体激酶 2 抗体
Alias	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.
Research Area	immunology Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Chicken,Dog,Pig,Cow,GuineaPig)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	76kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GRK2: 601-689/689
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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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.

Product Detail

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

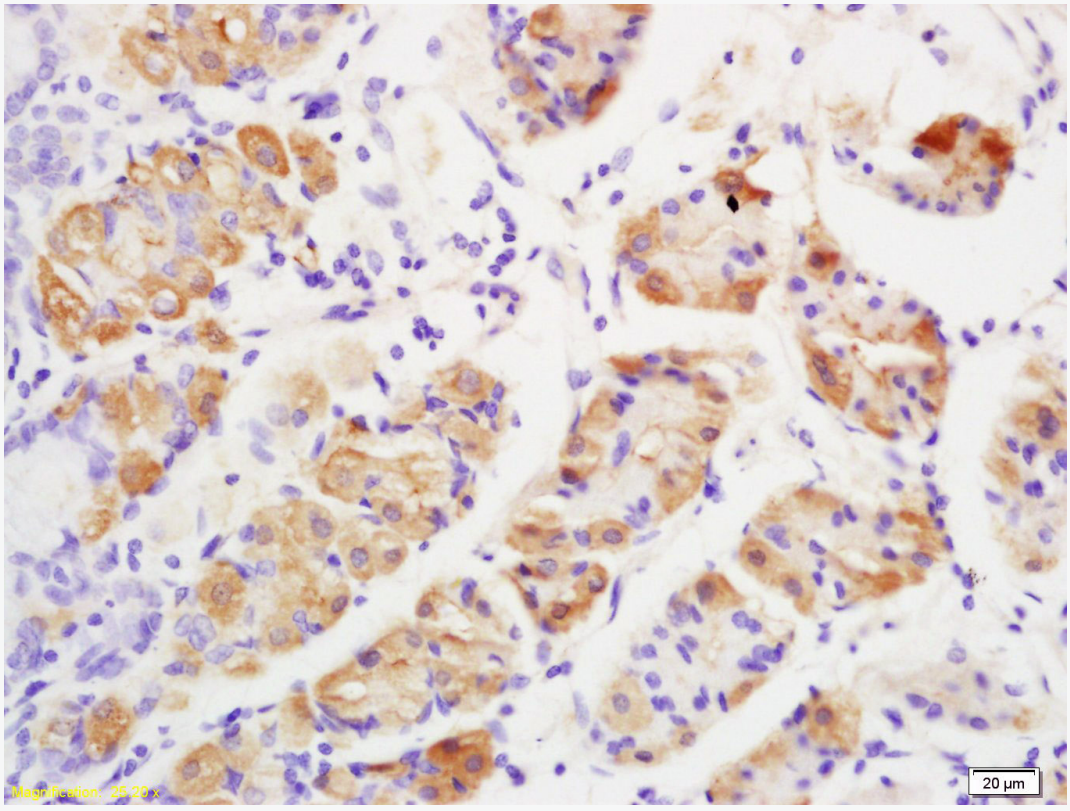
Unigene: 83636 Human

Unigene: 254144 Mouse

Unigene: 13010 Rat

G protein-coupled receptor 激酶 2(GRK2)是催化激动剂诱导的 GPCR 磷酸化以及启动 GPCR 脱敏的关键激酶,主要用于 GRKThe cell membrane 转位和对 GRK 功能的影响.

Product Picture



Tissue/cell: human stomach tissue; 4% Paraformaldehyde-fixed and

paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-GRK2/BARK1/ADRBK1 Polyclonal Antibody, Unconjugated(SL1209R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining