

GRK 2 (phospho Ser29) Polyclonal Antibody

Catalog No: YP0653

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: GRK 2

Fields: >>Chemokine signaling pathway;>>Endocytosis;>>Hedgehog signaling

pathway;>>Glutamatergic synapse;>>Olfactory transduction;>>Morphine

addiction

Gene Name: ADRBK1

Protein Name: Beta-adrenergic receptor kinase 1

Q99MK8

Human Gene Id: 156

Human Swiss Prot P25098

No:

Mouse Swiss Prot

No:

Rat Gene ld: 25238

Rat Swiss Prot No: P26817

Immunogen: The antiserum was produced against synthesized peptide derived from human

GRK2 around the phosphorylation site of Ser29. AA range:14-63

Specificity: Phospho-GRK 2 (S29) Polyclonal Antibody detects endogenous levels of GRK 2

protein only when phosphorylated at S29.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 80kD

Cell Pathway: Chemokine; Endocytosis;

Background: 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. Jul 2008],

Function : catalytic activity:ATP + [beta-adrenergic receptor] = ADP + [beta-adrenergic

receptor] phosphate.,catalytic activity:ATP + a protein = ADP + a

phosphoprotein.,function:Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them.,online information:Beta adrenergic receptor kinase entry,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 RGS domain.,subunit:Interacts with GIT1 (By similarity). Interacts with, and phosphorylates chemokine-stimulated CCR5.,tissue

specificity: Expressed in peripheral blood leukocytes.,

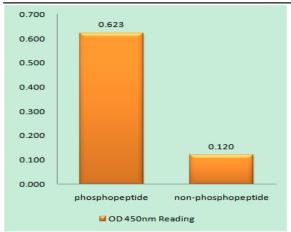
Subcellular Cytoplasm . Cell membrane . Cell junction, synapse, postsynapse . Cell junction,

Location: synapse, presynapse.

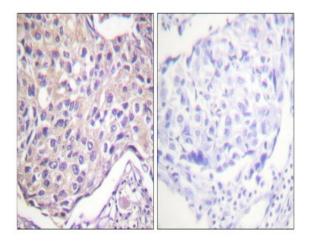
Expression : Expressed in peripheral blood leukocytes.

Products Images

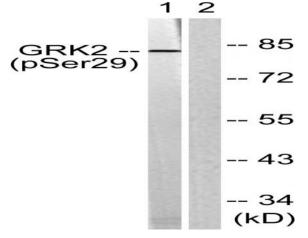
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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using GRK2 (Phospho-Ser29) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using GRK2 (Phospho-Ser29) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with EGF 200ng/ml 30', using GRK2 (Phospho-Ser29) Antibody. The lane on the right is blocked with the phospho peptide.