

## **GRK2 (Phospho Ser685) Antibody**

Catalog No: YP1225

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;ELISA

Target: GRK 2

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

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

addiction

Gene Name: ADRBK1 BARK BARK1 GRK2

Q99MK8

**Protein Name:** Beta-adrenergic receptor kinase 1 (Beta-ARK-1) (EC 2.7.11.15) (G-protein

coupled receptor kinase 2)

**Human Gene Id:** 156

**Human Swiss Prot** P25098

No:

**Mouse Swiss Prot** 

No:

Rat Gene ld: 25238

Rat Swiss Prot No: P26817

Immunogen: Synthesized phospho derived from human GRK2 (Phospho-Ser685)

**Specificity:** This detects endogenous levels of GRK2 (Phospho-Ser685)

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

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500-2000, ELISA 1:10000-20000

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

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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,

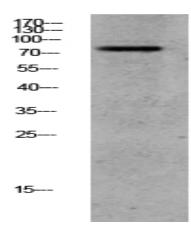
**Location :** synapse, presynapse .

**Expression :** Expressed in peripheral blood leukocytes.

## **Products Images**

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Western blot analysis of CACO2 lysate, antibody was diluted at 1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000