

**GRK 2 (phospho Ser29) Polyclonal Antibody**

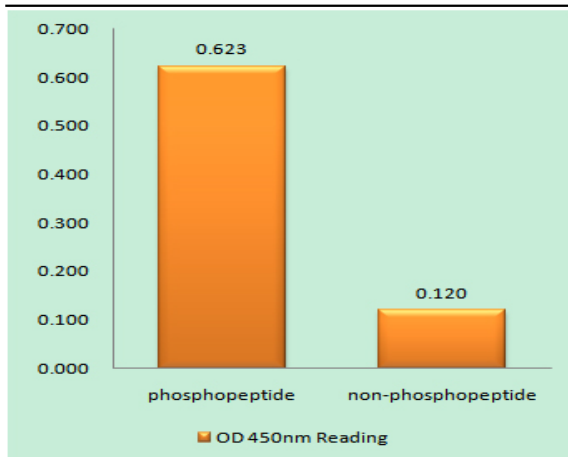
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|------------------------------|--|
| <b>Catalog No :</b>          | YP0653   |
| <b>Reactivity :</b>          | Human;Mouse;Rat  |
| <b>Applications :</b>        | WB;IHC;IF;ELISA  |
| <b>Target :</b>              | GRK 2  |
| <b>Fields :</b>              | >>Chemokine signaling pathway;>>Endocytosis;>>Hedgehog signaling pathway;>>Glutamatergic synapse;>>Olfactory transduction;>>Morphine addiction |
| <b>Gene Name :</b>           | ADRBK1   |
| <b>Protein Name :</b>        | Beta-adrenergic receptor kinase 1  |
| <b>Human Gene Id :</b>       | 156  |
| <b>Human Swiss Prot No :</b> | P25098   |
| <b>Mouse Swiss Prot No :</b> | Q99MK8   |
| <b>Rat Gene Id :</b>         | 25238  |
| <b>Rat Swiss Prot No :</b>   | P26817   |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human GRK2 around the phosphorylation site of Ser29. AA range:14-63        |
| <b>Specificity :</b>         | Phospho-GRK 2 (S29) Polyclonal Antibody detects endogenous levels of GRK 2 protein only when phosphorylated at S29.                            |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200   |

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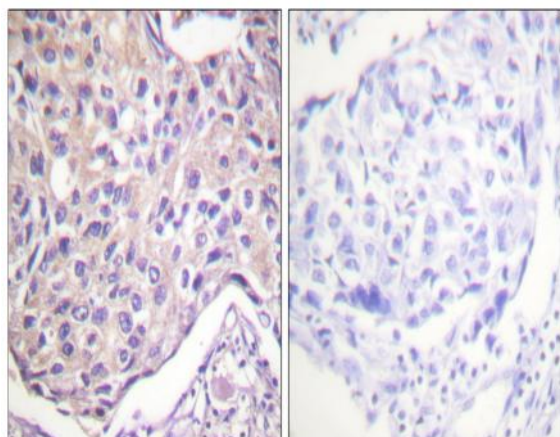
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|-------------------------------|---|
| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Concentration :</b>        | 1 mg/ml   |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)  |
| <b>Observed Band :</b>        | 80kD  |
| <b>Cell Pathway :</b>         | Chemokine;Endocytosis;  |
| <b>Background :</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, Jul 2008],   |
| <b>Function :</b>             | 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., |
| <b>Subcellular Location :</b> | Cytoplasm . Cell membrane . Cell junction, synapse, postsynapse . Cell junction, synapse, presynapse .  |
| <b>Expression :</b>           | Expressed in peripheral blood leukocytes.   |

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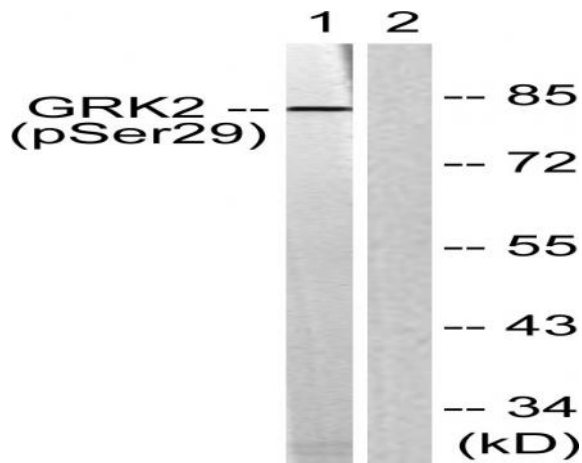
## Products Images



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.