

## GRK 2 Monoclonal Antibody

<b>Catalog No :</b>	YM0314
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey
<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>	Purified recombinant fragment of human GRK 2 expressed in E. Coli.
<b>Specificity :</b>	GRK 2 Monoclonal Antibody detects endogenous levels of GRK 2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification

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

**Molecularweight :** 80kD

**Cell Pathway :** Chemokine;Endocytosis;

**P References :** 1. Mol Biol Cell. 2008 Jul;19(7):2973-83.  
2. Biochemistry. 2009 May 26;48(20):4285-93.

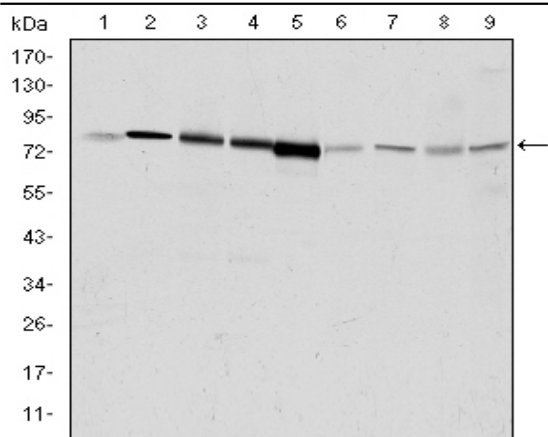
**Background :** The product of this gene phosphorylates the beta-2-adrenergic receptor and appears to mediate agonist-specific desensitization observed at high agonist concentrations. This protein is an ubiquitous cytosolic enzyme that specifically phosphorylates the activated form of the beta-adrenergic 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.,

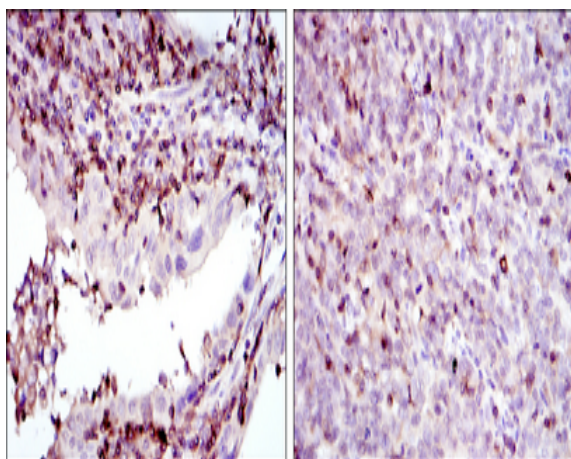
**Subcellular Location :** Cytoplasm . Cell membrane . Cell junction, synapse, postsynapse . Cell junction, synapse, presynapse .

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

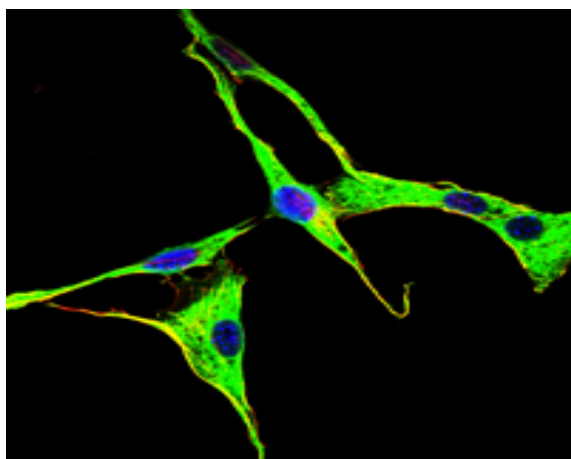
## Products Images



Western Blot analysis using GRK 2 Monoclonal Antibody against HeLa (1), Jurkat (2), MOLT4 (3), RAJI (4), THP-1 (5), L1210 (6), Cos7 (7), PC-12 (8), and NIH/3T3 (9) cell lysate.



Immunohistochemistry analysis of paraffin-embedded endometrial cancer tissues (left) and cervical cancer tissues (right) with DAB staining using GRK 2 Monoclonal Antibody.



Immunofluorescence analysis of NIH/3T3 cells using GRK 2 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.

