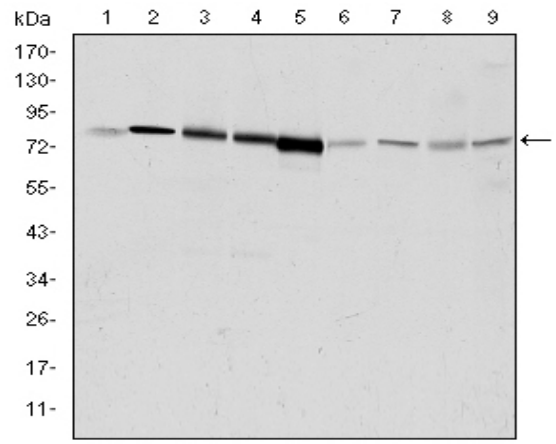
Best Tools for immunology Research

GRK 2 Monoclonal Antibody

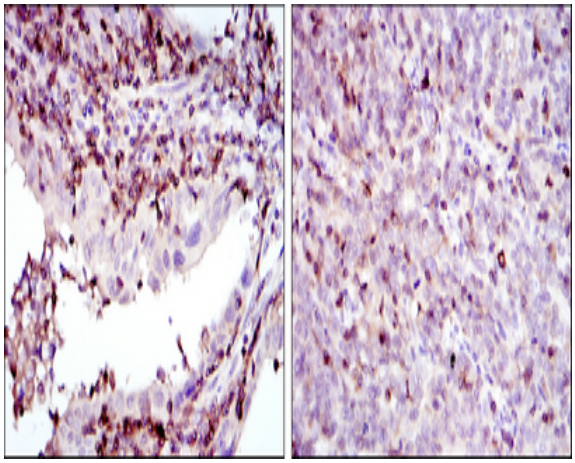
Catalog No :	YM0314
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	GRK 2
Fields :	>>Chemokine signaling pathway;>>Endocytosis;>>Hedgehog signaling pathway;>>Glutamatergic synapse;>>Olfactory transduction;>>Morphine addiction
Gene Name :	ADRBK1
Protein Name :	Beta-adrenergic receptor kinase 1
Human Gene Id :	156
Human Swiss Prot No :	P25098
Mouse Swiss Prot No :	Q99MK8
Rat Gene Id :	25238
Rat Swiss Prot No :	P26817
Immunogen :	Purified recombinant fragment of human GRK 2 expressed in E. Coli.
Specificity :	GRK 2 Monoclonal Antibody detects endogenous levels of GRK 2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	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.
Sort :	7121
No4 :	1
Host :	Mouse
Modifications :	Unmodified

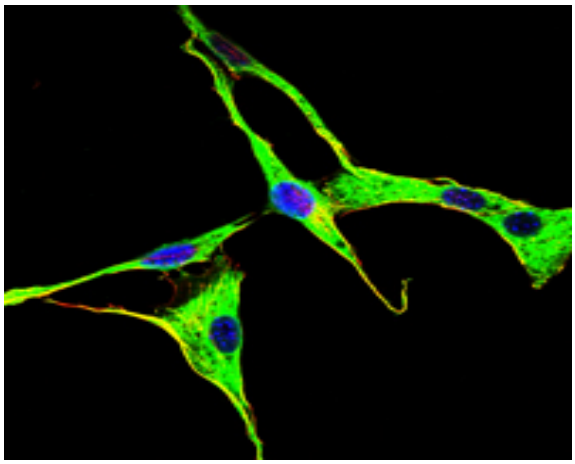
Products Images



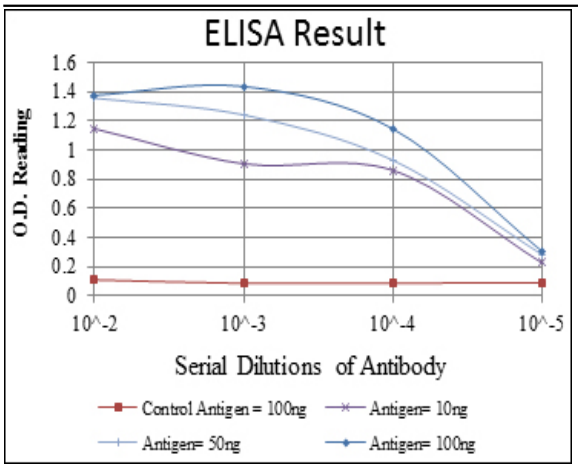
Western Blot analysis using GRK 2 Monoclonal Antibody against HeLa (1), Jurkat (2), MOLT4 (3), RAJI (4), THP-1 (5), L1210 (6), Cos7 (7), PC-12 (8), and NIH/3T3 (9) cell lysate.



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.


ELISA Result
O.D. Reading
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10^-2
10^-3
10^-4
10^-5
Serial Dilutions of Antibody
Control Antigen = 100ng
Antigen= 10ng
Antigen= 50ng
Antigen= 100ng