

## GRK 2 Polyclonal Antibody

<b>Catalog No :</b>	YT2064
<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 ARBK1. AA range:601-650
<b>Specificity :</b>	GRK 2 Polyclonal 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>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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

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**Observed Band :** 80kD

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**Cell Pathway :** Chemokine;Endocytosis;

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**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],

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**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.,

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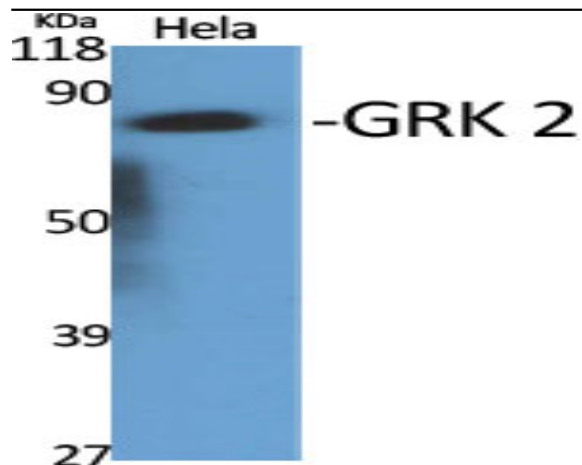
**Subcellular Location :** Cytoplasm . Cell membrane . Cell junction, synapse, postsynapse . Cell junction, synapse, presynapse .

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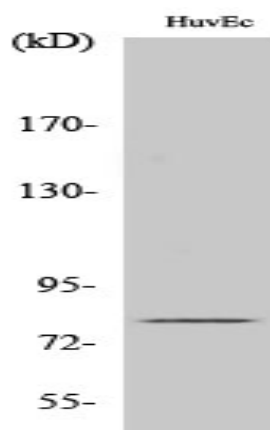
**Expression :** Expressed in peripheral blood leukocytes.

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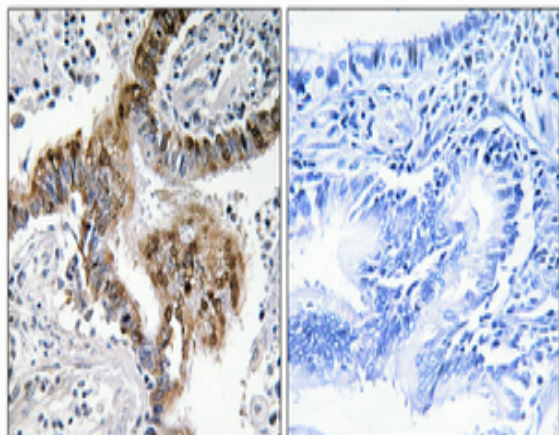
## Products Images



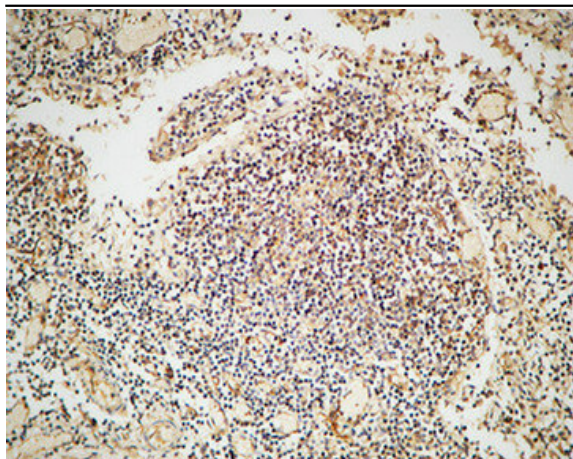
Western Blot analysis of various cells using GRK 2 Polyclonal Antibody



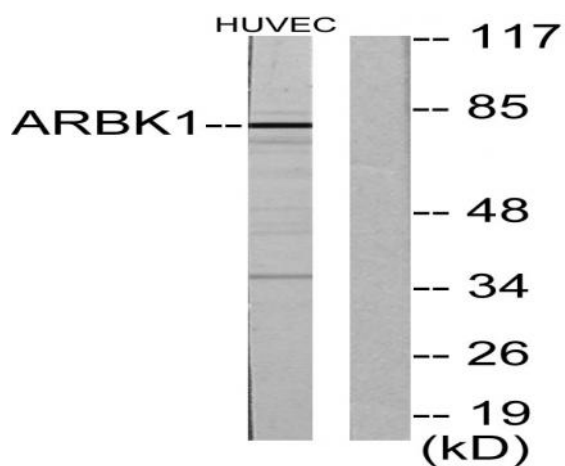
Western Blot analysis of HuvEc cells using GRK 2 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunohistochemical analysis of paraffin-embedded Human Lymph gland. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).



Western blot analysis of lysates from HUVEC cells, using ARBK1 Antibody. The lane on the right is blocked with the synthesized peptide.