Product datasheet

Anti-GRK2 Antibody

Catalog Number: *A01473-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-GRK2 Antibody
Gene Name	GRK2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GRK2, identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	80 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Beta adrenergic receptor kinase (also referred to as βARK or BARK) is a serine/threonine intracellular kinase. 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.

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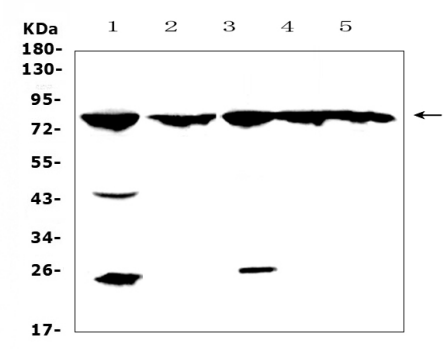
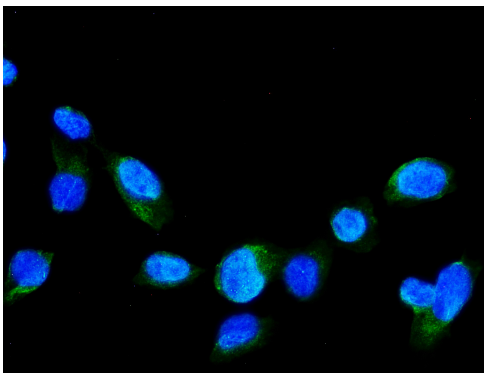
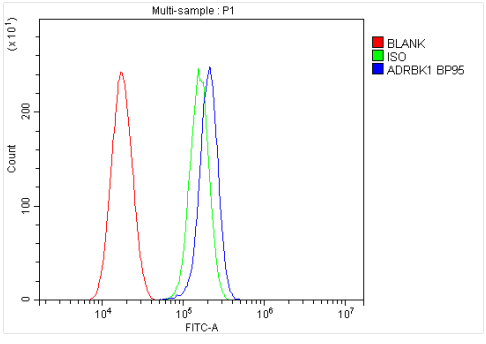
Selected Validation Data



Western blot analysis of GRK2 using anti-GRK2 antibody (A01473-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat spleen tissue lysates,
Lane 2: rat stomach tissue lysates,
Lane 3: mouse lung tissue lysates,
Lane 4: mouse liver tissue lysates,
Lane 5: mouse pancreas tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GRK2 antigen affinity purified polyclonal antibody (A01473-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GRK2 at approximately 80 kDa. The expected band size for GRK2 is at 80 kDa.



IF analysis of GRK2 using anti-GRK2 antibody (A01473-1).
GRK2 was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-GRK2 Antibody (A01473-1) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of U87 cells using anti-GRK2 antibody (A01473-1).
Overlay histogram showing U87 cells stained with A01473-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-GRK2 Antibody (A01473-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled

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sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.