

Basic Information

Product Name	Anti-GRK3 Antibody
Gene Name	GRK3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human GRK3 recombinant protein (Position: R591-L688).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	80 kDa
Dilution Ratios	Western blot (WB):1:500-2000 ELISA: 1:100-1000

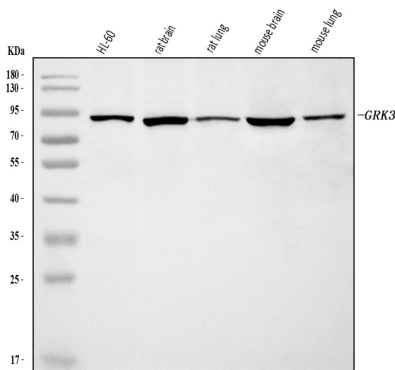
Storage

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

Background Information

Beta-adrenergic receptor kinase 2 (beta-ARK-2), also known as G-protein-coupled receptor kinase 3 (GRK3), is an enzyme that in humans is encoded by the ADRBK2 gene. The human ADRBK2 gene is located on 22q11. The beta-adrenergic receptor kinase specifically phosphorylates the agonist-occupied form of the beta-adrenergic and related G protein-coupled receptors. Overall, the beta adrenergic receptor kinase 2 has 85% amino acid similarity with beta adrenergic receptor kinase 1, with the protein kinase catalytic domain having 95% similarity. These data suggest the existence of a family of receptor kinases which may serve broadly to regulate receptor function.

Selected Validation Data



Western blot analysis of GRK3 using anti-GRK3 antibody (A32254-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: HL-60 whole cell lysates,

Lane 2: rat brain tissue lysates,

Lane 3: rat lung tissue lysates,

Lane 4: mouse brain tissue lysates,

Lane 5: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GRK3 antigen affinity purified polyclonal antibody (A32254-1) 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 GRK3 at approximately 80 kDa. The expected band size for GRK3 is at 80 kDa.