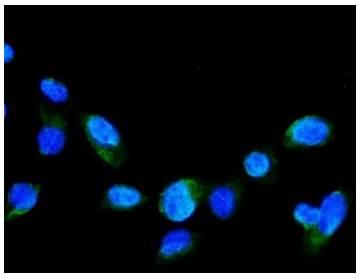
GRK2 Antibody / Beta-adrenergic receptor kinase 1 (RQ4087)

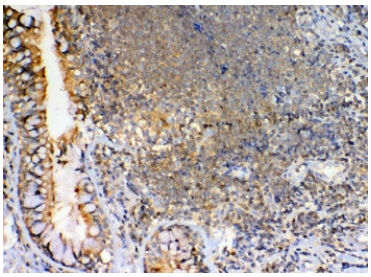
Catalog No.	Formulation	Size
RQ4087	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

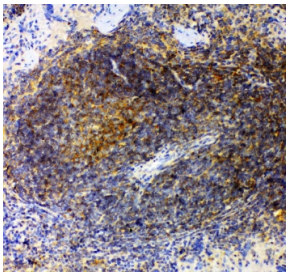
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Predicted Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P25098
Applications	Western Blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This GRK2 antibody is available for research use only.



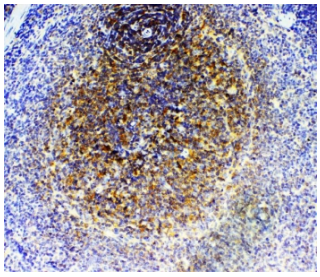
Immunofluorescent staining of FFPE human U-2 OS cells with GRK2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



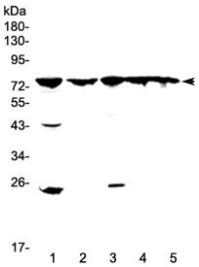
IHC staining of FFPE human lung cancer with GRK2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



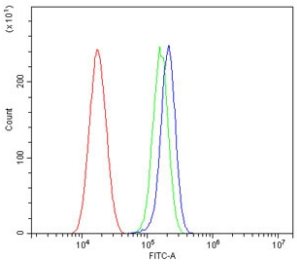
IHC staining of FFPE mouse spleen with GRK2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE rat spleen with GRK2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Western blot testing of 1) rat spleen, 2) rat stomach, 3) mouse lung, 4) mouse liver and 5) mouse pancreas lysate wtih GRK2 antibody at 0.5ug/ml. Predicted molecular weight ~79 kDa.



Flow cytometry testing of human U-87 MG cells with GRK2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= GRK2 antibody.

Description

Beta adrenergic receptor kinase (also referred to as beta-ARK 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.

Application Notes

Optimal dilution of the GRK2 antibody should be determined by the researcher.

Immunogen

Amino acids DSDPELVQWKKELRDAYREAQQLVQRVPKMKNK from the human protein were used as the immunogen for the GRK2 antibody.

Storage

After reconstitution, the GRK2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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