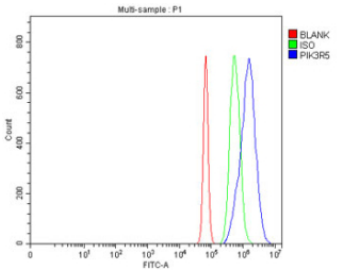
PIK3R5 Antibody / Phosphoinositide 3-kinase regulatory subunit 5 (RQ8865)

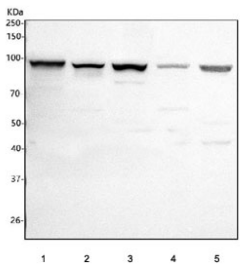
Catalog No.	Formulation	Size
RQ8865	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8WYR1
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This PIK3R5 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human JK cells with PIK3R5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PIK3R5 antibody.



Western blot testing of 1) human Jurkat, 2) human K562, 3) rat C6, 4) mouse brain and 5) mouse Neuro-2a cell lysate with PIK3R5 antibody. Predicted molecular weight ~97 kDa, ~55 kDa (two isoforms).

Description

Phosphoinositide 3-kinase regulatory subunit 5 is an enzyme that in humans is encoded by the PIK3R5 gene. Phosphatidylinositol 3-kinases (PI3Ks) phosphorylate the inositol ring of phosphatidylinositol at the 3-prime position, and play important roles in cell growth, proliferation, differentiation, motility, survival and intracellular trafficking. The PI3Ks are divided into three classes: I, II and III, and only the class I PI3Ks are involved in oncogenesis. This gene encodes the 101 kD regulatory subunit of the class I PI3K gamma complex, which is a dimeric enzyme, consisting of a 110 kD catalytic subunit gamma and a regulatory subunit of either 55, 87 or 101 kD. This protein recruits the catalytic subunit from the cytosol to the plasma membrane through high-affinity interaction with G-beta-gamma proteins. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found.

Application Notes

Optimal dilution of the PIK3R5 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids E170-L864) was used as the immunogen for the PIK3R5 antibody.

Storage

After reconstitution, the PIK3R5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.