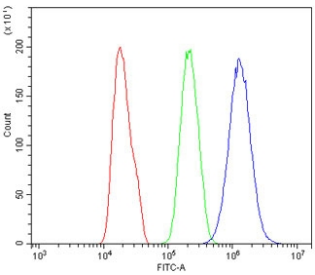
CLK2 Antibody (RQ5967)

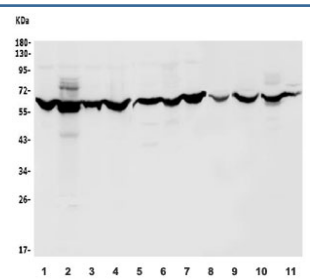
Catalog No.	Formulation	Size
RQ5967	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P49760
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This CLK2 antibody is available for research use only.



Flow cytometry testing of human PC-3 cells with CLK2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CLK2 antibody.



Western blot testing of human 1) HeLa, 2) U-2 OS, 3) PC-3, 4) 22RV1, 5) A549, 6) COLO-320, 7) SW620, 8) rat brain, 9) rat RH35, 10) mouse HEPA1-6 and 11) mouse NIH 3T3 lysate with CLK2 antibody. Predicted molecular weight ~60 kDa.

Description

Dual specificity protein kinase CLK2 is an enzyme that in humans is encoded by the CLK2 gene. It is mapped to 1q22. This gene encodes a dual specificity protein kinase that phosphorylates serine/threonine and tyrosine-containing substrates. Activity of this protein regulates serine- and arginine-rich (SR) proteins of the spliceosomal complex, thereby influencing alternative transcript splicing. Chromosomal translocations have been characterized between this locus and the PAFAH1B3 (platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa)) gene on chromosome 19, resulting in the production of a fusion protein. Note that this gene is distinct from the TELO2 gene (GeneID:9894), which shares the CLK2 alias, but encodes a protein that is involved in telomere length regulation. There is a pseudogene for this gene on chromosome 7. Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the CLK2 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids A140-D496) was used as the immunogen for the CLK2 antibody.

Storage

After reconstitution, the CLK2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.