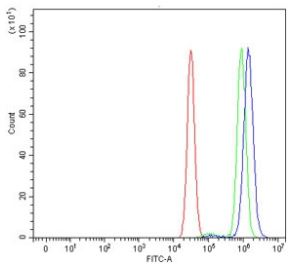
RPS6KB1 Antibody / S6K1 (RQ6898)

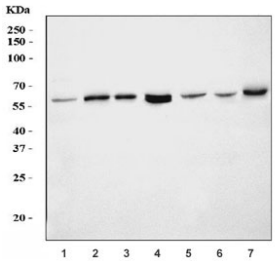
Catalog No.	Formulation	Size
RQ6898	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
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
UniProt	P23443
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This RPS6KB1 antibody is available for research use only.



Flow cytometry testing of human MCF7 cells with RPS6KB1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RPS6KB1 antibody.



Western blot testing of 1) human MOLT-4, 2) human U-2 OS, 3) human HL60, 4) human U-251, 5) human 293T, 6) human placenta and 7) mouse NIH 3T3 cell lysate with RPS6KB1 antibody. Predicted molecular weight: ~59 kDa, routinely observed at 59-70 kDa.

Description

Ribosomal protein S6 kinase beta-1 (S6K1), also known as p70S6 kinase (p70S6K, p70-S6K), is an enzyme (specifically, a protein kinase) that in humans is encoded by the RPS6KB1 gene. This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17.

Application Notes

Optimal dilution of the RPS6KB1 antibody should be determined by the researcher.

Immunogen

Amino acids IDKILKCKLNLPPYLTQEARDL from the human protein were used as the immunogen for the RPS6KB1 antibody.

Storage

After reconstitution, the RPS6KB1 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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