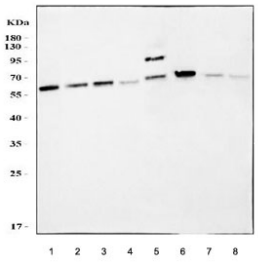
AKT3 Antibody (RQ6929)

Catalog No.	Formulation	Size
RQ6929	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	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9Y243
Applications	Western blot: 0.5-1 ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This AKT3 antibody is available for research use only.



Western blot testing of 1) rat brain, 2) rat PC-12, 3) mouse brain, 4) mouse lung, 5) mouse NIH 3T3, 6) human SH-SY5Y, 7) human U-87 MG and 8) human U-251 cell lysate with AKT3 antibody. Predicted molecular weight: ~56 kDa but can be observed from 60~65 kDa.

Description

RAC-gamma serine/threonine-protein kinase, also known as protein kinase Akt-3, is an enzyme that in humans is encoded by the AKT3 gene. This gene is mapped to 1q43-q44. The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor(PDGF), insulin, and insulin-like growth factor 1(IGF1).

AKT3 plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. This gene is required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands.

Application Notes

Optimal dilution of the AKT3 antibody should be determined by the researcher.

Immunogen

Recombinant human AKT3 protein (amino acids A104-L154) was used as the immunogen for the AKT3 antibody.

Storage

After reconstitution, the AKT3 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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