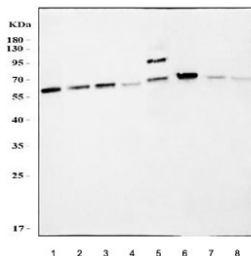


AKT3 Antibody (RQ6929)

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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.