

PACO54086

Product Information

Size:

50ug

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, IP

Recommended dilutions:

ELISA:1:2000-1:10000, IP:1:200-1:2000

Protein Background:

AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It 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. Required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase-dependent apoptosis.

Gene ID:

AKT3

Uniprot

Q9Y243

Synonyms:

RAC-gamma serine/threonine-protein kinase (EC 2.7.11.1) (Protein kinase Akt-3) (Protein kinase B gamma) (PKB gamma) (RAC-PK-gamma) (STK-2), AKT3, PKBG

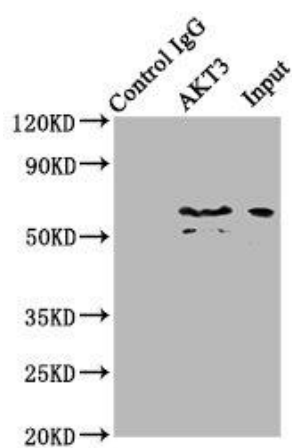
Immunogen:

Recombinant Human RAC- γ ; serine/threonine-protein kinase protein (1-164AA).

Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, pH 7.4

Product Images



Immunoprecipitating AKT3 in mouse brain whole cell lysate. Lane 1: Rabbit control IgG (1 μ g) instead of PACO54086 in mouse brain whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000). Lane 2: PACO54086 (6 μ g) + Mouse brain whole cell lysate (500 μ g). Lane 3: Mouse brain whole cell lysate (10 μ g).