

AKT1/AKT3 (Ab-437/434) Antibody



PACO21597

Product Information

Size:

100ul

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:3000

Protein Background:

AKT1 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. AKT is responsible of the regulation of glucose uptake by mediating insulin-induced translocation of the SLC2A4/GLUT4 glucose transporter to the cell surface. Phosphorylation of PTPN1 at 'Ser-50' negatively modulates its phosphatase activity preventing dephosphorylation of the insulin receptor and the attenuation of insulin signaling. Phosphorylation of TBC1D4 triggers the binding of this effector to inhibitory 14-3-3 proteins, which is required for insulin-stimulated glucose transport.

Gene ID:

AKT1/AKT3

Uniprot

P31749/Q9Y243

Synonyms:

AKT; AKT1 kinase; C-AKT; EC 2.7.11.1; kinase Akt1

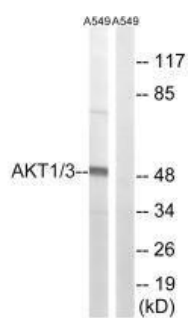
Immunogen:

Synthesized non-phosphopeptide derived from human AKT1/3 around the phosphorylation site of tyrosine 437/434 (T-R-Y(p)-F-D).

Storage:

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images



Western blot analysis of extracts from A549 cells, using AKT1/3 (Ab-437/434) antibody.