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AKT1 (N) Antibody, Rabbit Polyclonal

Cat#: R1187-1

Lot#: Refer to vial

Quantity: 100 ul

Application: WB

Predicted I Observed M.W.: 56 I 60 kDa

Uniprot ID: P31749

Background:

RAC-alpha serine/threonine-protein kinase (AKT1) belongs to the protein kinase superfamily, AGC Ser/Thr protein kinase family, and the RAC subfamily. 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.

Other Names:

RAC-alpha serine/threonine-protein kinase, PKB, RAC, Protein kinase B, PKB, Protein kinase B alpha, PKB alpha, Proto-oncogene c-Akt, RAC-PK-alpha

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human AKT1. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN$_3$. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

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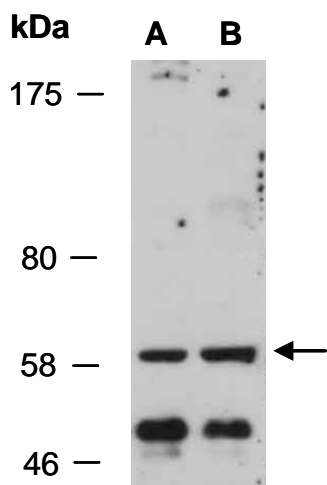
Product Data:

Fig 1. *Western blot of total cell extracts from (A) human HeLa, (B) human Jurkat; using anti-AKT1 (N) (R1187-1) at RT for 2 h.*

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