

Anti-AKT (pan)

Rabbit Polyclonal Antibody

Catalog # A16-63BR

Lot # T871-5

Cited Applications

- Western blot (1:1000)

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity

Recognizes the AKT1, AKT2, and AKT3 protein

Cross Reactivity

- Western blot AKT1, AKT2, and AKT3 from human and mouse cells

AKT1, AKT2, and AKT3 from other species may also be detectable

Host

Rabbit

Immunogen

Synthetic peptide corresponding to amino acids 313-317 of human AKT1 (protein accession number P31749)

Formulation

PBS pH 7.4, 0.02% sodium azide, 50% glycerol

Stability

Store at 4°C (add 0.1% NaN₃) for several months, and at -20°C for longer periods. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles.

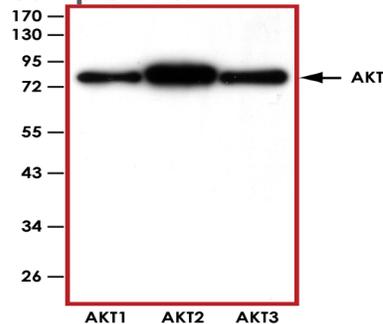
Scientific Background

Akt, also referred to as PKB or Rac, plays a critical role in controlling survival and apoptosis. This protein kinase is activated by insulin and various growth and survival factors to function in a wortmannin-sensitive pathway involving PI3 kinase. Akt is activated by phospholipid binding and activation loop phosphorylation at Thr308 by PDK1 and by phosphorylation within the carboxy terminus at Ser473 (1).

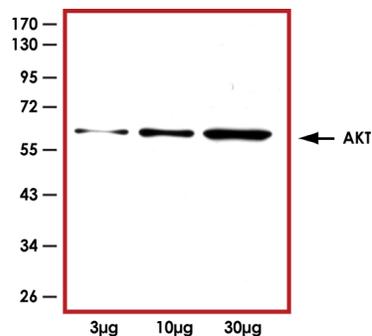
References

1. Anderson, KE. et al: Translocation of PDK-1 to the plasma membrane is important in allowing PDK-1 to activate protein kinase B. *Curr Biol.* 1998 Jun 4;8(12): 684-91.

Sample Data



Representative western blot with Anti-AKT (pan) (1:1000) using 15 ng of human recombinant AKT1, AKT2, and AKT3.



Representative western blot with Anti-AKT (pan) (1:1000) using 3µg, 10µg and 30 µg of 3T6 cell lysate.

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Purification

Affinity chromatography

Concentration

1.0 µg/µL

Stability

1yr at -20°C from date of shipment

Storage & Shipping

Store product at -20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.