

Anti-phospho-AKT1/2/3 (Thr308)

Rabbit Polyclonal Antibody

Catalog # A16-65R

Lot # J1178-29

Cited Applications

WB, IHC

Suggested Dilutions:

WB: 1:500-1:1000 IHC: 1:50-1:100

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

Specificity

Recognizes the AKT1/2/3 protein phosphorylated at threonine 308

Cross Reactivity

Human, Mouse and Rat

Host/Isotype/Clone#

Rabbit, IgG

Immunogen

Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr308

Formulation

PBS (pH 7.4) 150mM NaCl, 0.02% sodium azide and 50% glycerol.

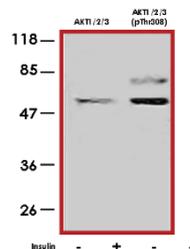
Scientific Background

The AKT family of serine/threonine kinases includes AKT1, AKT2 and AKT3. They are activated in response to diverse stimuli such as hormones, growth factors and extracellular matrix components. AKTs are involved in glucose metabolism, transcription, survival, cell proliferation, angiogenesis, and cell motility (1). AKT1 is frequently overexpressed and active in many types of human cancers including cancers of colon, breast, brain, pancreas and prostate as well as lymphomas and leukemias (2). AKT is activated by phosphorylation at Thr308 and Ser473 by PDK1 and PDK2 respectively.

References

1. Coffey, P.J. et al: Protein kinase B (c-Akt): a multifunctional mediator of phosphatidylinositol 3-kinase activation. *Biochem J.* 1998 Oct 1; 335 (Pt 1):1-13.
2. Anderson, K.E. 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



Western blot analysis using AKT1/2/3 (phospho-Thr308) antibody: Lane 1: The extract from HEK293 cells untreated; Lane 2: The extract from HEK293 cells treated with insulin.



Peptide - +

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using anti-phospho-AKT1/2/3 (Thr308) antibody.

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Purification

Affinity chromatography

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.

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