10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-AKT(Y326) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3022a

Product Information

Application	WB, E
Primary Accession	P31749
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5203

Additional Information

Other Names	RAC-alpha serine/threonine-protein kinase, Protein kinase B, PKB, Protein kinase B alpha, PKB alpha, Proto-oncogene c-Akt, RAC-PK-alpha, AKT1, PKB, RAC
Target/Specificity	This AKT Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y326 of human AKT.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-AKT(Y326) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

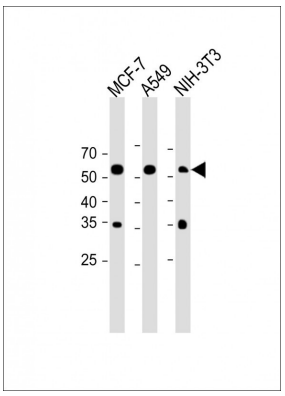
The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine

kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery.

References

DeBusk, L.M., et al., Exp. Cell Res. 298(1):167-177 (2004).
Kyoung Pyo, H., et al., Neuroscience 127(3):649-658 (2004).
LeVea, C.M., et al., Exp. Cell Res. 297(1):272-284 (2004).
Ryder, J., et al., Cell. Signal. 16(2):187-200 (2004).
Bommhardt, U., et al., J. Immunol. 172(12):7583-7591 (2004).

Images



All lanes: Anti-AKT(Y326) Antibody at 1:2000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: A549 whole cell lysate Lane 3: NIH-3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 56 KDa Blocking/Dilution buffer: 5% NFDM/TBST.