

Product datasheet for TA389045

Phospho-AKT1 Mouse Antibody [Clone ID: M114]

Product data:

Product Type: Primary Antibodies Clone Name: M114 **Applications:** IP, WB Recommended Dilution: **WB**: 1:250 **Reactivity:** Human, Rat, Mouse Host: Mouse Isotype: lgG1 Clone M114 was generated from a peptide containing amino acid residues surrounding Immunogen: Serine 473 in human Akt1. This sequence is highly conserved in human and mouse Akt, and may recognize Akt2 and Akt3. Specificity: This antibody detects a 60 kDa* protein corresponding to the apparent molecular mass of Akt on SDS-PAGE immunoblots of mouse NIH3T3 cells treated with PDGF and human A431 cells treated with EGF. Formulation: PBS + 0.02% NaN3 **Concentration:** lot specific **Purification:** Protein G Purified **Conjugation:** Unconjugated Storage: Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage) upon arrival and stored long term at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year. Stability: After date of receipt, stable for at least 1 year at -20°C. **Predicted Protein Size:** 60 Database Link: P31749



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Background:	Akt (PKB, Rac kinase) is a 60kDa ser/thr kinase critical for controlling diverse cellular functions, including glucose metabolism, gene transcription, cell proliferation, and apoptosis. Akt phosphorylates a number of substrates including MBP, glycogen synthetase, PKA RII subunit, and histone H1. Akt is activated in response to insulin and growth factors in a PI3-kinase dependent manner. Activation of PI3-Kinase generates phosphatidylinositol 3,4-bisphosphate, which induces membrane translocation of Akt coincident with its phosphorylation at Thr-308 and Ser-473. Upon activation, Akt associates with members of the PKC family of kinases, such as PKCδ and PKCζ. Ceramide-activated PKCζ leads to phosphorylation inhibits PIP3 binding to Akt preventing activation of the kinase and may lead to cermide-induced cell death.
Note:	Protein G purified tissue culture supernatant.

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