

Product datasheet for TA396765

AKT1 Mouse Monoclonal Antibody [Clone ID: 18F3.H11]

Product data:

Product Type: Primary Antibodies Clone Name: 18F3.H11 **Applications:** ELISA, FC, IHC, WB Recommended Dilution: WB: 1:500 - 1:3,000 **IHC**: 20 µg/ml FC: User Optimized ELISA: 1:20,000 **Reactivity:** Human, Mouse Host: Mouse Isotype: IgG1, kappa **Clonality:** Monoclonal Immunogen: Akt phospho T308 Antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding T308 of human AKT1 protein. Specificity: Anti-AKT pT308 antibody was purified from concentrated tissue culture supernate by Protein A chromatography. This antibody is specific for human and mouse AKT protein phosphorylated at T308. A BLAST analysis was used to suggest cross-reactivity with AKT pT308 from most vertebrate species sources based on 100% homology with the immunizing sequence. Cross-reactivity with AKT from other sources has not been determined. Crossreactivity with AKT2 and AKT3 will likely occur. Formulation: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Concentration: 1.0 mg/mL - lot specific **Conjugation:** Unconjugated Storage: Store Akt phospho T308 Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Stability: Expiration date is one (1) year from date of receipt. Gene Name: AKT serine/threonine kinase 1



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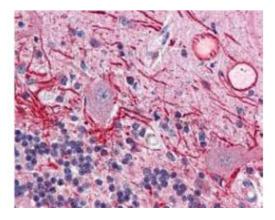
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	AK11 Mouse Monocional Antibody [Clone ID: 18F3.H11] – TA396765
Database Link:	<u>Entrez Gene 207 Human</u> <u>P31749</u>
Background:	AKT is a component of the PI-3 kinase pathway and is activated by phosphorylation at Ser 473 and Thr 308. AKT is a cytoplasmic protein also known as AKT1, Protein Kinase B (PKB) and rac (related to A and C kinases). AKT is a key regulator of many signal transduction pathways. AKT Exhibits tight control over cell proliferation and cell viability. Overexpression or inappropriate activation of AKT is noted in many types of cancer. AKT mediates many of the downstream events of PI 3-kinase (a lipid kinase activated by growth factors, cytokines and insulin). PI 3-kinase recruits AKT to the membrane, where it is activated by PDK1 phosphorylation. Once phosphorylated, AKT dissociates from the membrane and phosphorylates targets in the cytoplasm and the cell nucleus. AKT has two main roles: (i) inhibition of apoptosis; (ii) promotion of proliferation.
Synonyms:	mouse anti-AKT pT308 Antibody, RAC-PK-alpha, Protein kinase B, PKB, C-AKT, RAC-alpha serine/threonine-protein kinase, Proto-oncogene c-Akt, AKT1, AKT 1, AKT-1
Note:	Anti-AKT Phospho T308 monoclonal antibody is tested in ELISA, immunohistochemistry, immunoprecipitation and western blotting. Expect a band approximately 56 kDa in size corresponding to phosphorylated AKT protein by western blotting in the appropriate cell lysate or extract. This phospho-specific monoclonal antibody reacts with human and mouse AKT pT308 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide. Specific conditions for reactivity should be optimized by the end user. Use formalin-fixed paraffin-embedded sections for immunohistochemistry. No pre- treatment of sample is required.

Product images:

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Immunohistochemistry of Mouse anti-AKT pT308 antibody. Tissue: human brain cerebellum tissue (40X). Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: AKT pT308 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: staining of Purkinje neurons and cell processes in the cerebellum, cytosolic as well as occasionally nuclear. Staining: AKT pT308 as precipitated red signal with hematoxylin purple nuclear counterstain.

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