

Product datasheet for **AM06526SU-N**

AKT1 Mouse Monoclonal Antibody [Clone ID: 3A3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3A3
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. ELISA: 1/10000.
Reactivity:	Human, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human AKT1 expressed in E. Coli.
Specificity:	This antibody reacts to AKT1.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	56 kDa
Gene Name:	AKT serine/threonine kinase 1
Database Link:	Entrez Gene 207 Human P31749



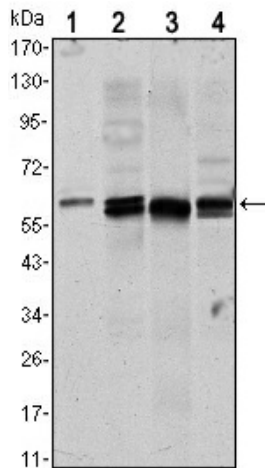
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Background:

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. Multiple alternatively spliced transcript variants have been found for this gene.

Synonyms:

Akt-1, RAC-PK-alpha, Protein kinase B, C-AKT

Product images:

Western blot analysis using AKT1 mouse mAb against NIH/3T3 (1) HeLa (2) ?COS7 (3) and Jurkat (4) cell lysate.