

## Mouse Monoclonal Antibody to AKT1

<b>Catalogue Number</b>	sAP-0353
<b>Target Molecule</b>	<p><b>Name: AKT1</b></p> <p><b>Aliases:</b> AKT; PKB; RAC; PRKBA; MGC99656; PKB-ALPHA; RAC-ALPHA; AKT1</p> <p><b>MW: 56kDa</b></p> <p><b>Entrez Gene ID: 207</b></p>
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human AKT1 expressed in E. Coli. ; ;
<b>Reactive Species</b>	Human; Mouse; Monkey
<b>Clone</b>	MM3A3;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. J Cell Physiol. 2010 Oct;225(1):168-73. ; 2. Mol Cell Biol. 1995 Apr;15(4):2304-10. ; 3. EMBO J. 1997 Sep 1;16(17):5445-54.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**