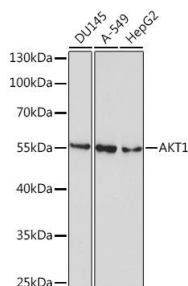


<b>Cat. No:</b>	MAB-94618
<b>Conjugate:</b>	Unconjugated
<b>Size:</b>	100 ug
<b>Clone:</b>	9CM
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Ms
<b>Isotype:</b>	IgG
<b>Immunogen:</b>	A synthetic peptide of human AKT1
<b>Reactivity:</b>	Hu ,Ms
<b>Applications:</b>	WB: 1:500 - 1:1000
<b>Molecular Weight:</b>	56 kDa
<b>Purification:</b>	Aff. Pur.

**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. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

<b>Form:</b>	Liquid
<b>Buffer:</b>	PBS with 0.02% sodium azide,50% glycerol, pH7.3.
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts of various cell lines, using AKT1 antibody at 1:300 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL West Pico Plus.  
Exposure time: 90s.

## References

References for AKT1 Mouse mAb

Product:AKT1 Mouse mAb

Journal:Journal of Natural Medicines

Application:WB

IF:1.982

Species:Mus musculus

PMID:29740735

Title:Dandelion root extract protects NCM460 colonic cells and relieves experimental mouse colitis

References for AKT1 Mouse mAb

Product:AKT1 Mouse mAb

Journal:Journal of cellular biochemistry

Application:WB

IF:2.95

Species:Homo sapiens

PMID:30450569

Title:Long noncoding RNA STXBP5-AS1 inhibits cell proliferation, migration, and invasion via preventing the PI3K/AKT against STXBP5 expression in non-small-cell lung carcinoma.

References for AKT1 Mouse mAb

Product:AKT1 Mouse mAb

Journal:Cell death and differentiation

Application:WB

IF:8

Species:Mus musculus

PMID:30683918

Title: The role of the LncRNA-FA2H-2-MLKL pathway in atherosclerosis by regulation of autophagy flux and inflammation through mTOR-dependent signaling.

References for AKT1 Mouse mAb

Product:AKT1 Mouse mAb

Journal:Aging

Application:WB

IF:4.83

Species:Homo sapiens

PMID:32454461

Title:ZNF139/circZNF139 promotes cell proliferation, migration and invasion via activation of PI3K/AKT pathway in bladder cancer

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