

# Mouse Monoclonal Antibody to AKT1

## Order Information

Catalog#	20434	
Size/Concentration	100µl	50µl
Price(¥)	2180	1280

## Description

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.

## Specification

Aliases : AKT; PKB; RAC; PRKBA; MGC99656; PKB-ALPHA; RAC-ALPHA; AKT1

Entrez GeneID : 207

Swissprot : P31749

clone : 3A3

WB Predicted band size : 56kDa

Host/Isotype : Mouse IgG1

Storage : Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Species Reactivity : Human, Mouse, Monkey

Immunogen : Purified recombinant fragment of human AKT1 expressed in E. Coli.

Formulation : Ascitic fluid containing 0.03% sodium azide.

## Application

WB	1/500 - 1/2000
ELISA	1/10000

## References

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.

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## Protocol

WB - [www.promab.com/protocol/wb.html](http://www.promab.com/protocol/wb.html)

IHC - [www.promab.com/protocol/ihc.html](http://www.promab.com/protocol/ihc.html)

ICC - [www.promab.com/protocol/icc.html](http://www.promab.com/protocol/icc.html)

HCM - [www.promab.com/protocol/hcm.html](http://www.promab.com/protocol/hcm.html)

**Antigen Sequence** is available upon request.

## Products and Services

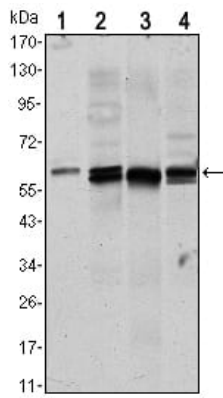
- Mouse Monoclonal Antibody
- Rat Monoclonal Antibody
- Human Antibody
- Hybridoma Sequencing
- Polyclonal Antibody

**For Research Only**

**Application Key:** WB - Western Blot | IHC - Immunohistochemistry | ICC - Immunocytochemistry | FCM - Flow Cytometry | ELISA - Enzyme-linked Immunosorbent Assay | IP - Immunoprecipitation

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# Mouse Monoclonal Antibody to AKT1



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

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