

# [KO Validated] AKT1 Rabbit pAb

Catalog No.: A16343 **KO** **Validated** **1 Publications**

## Basic Information

### Catalog No.

A16343

### Observed MW

60kDa

### Calculated MW

48kDa/55kDa

### Category

Primary antibody

### Applications

WB, IHC, IF

### Cross-Reactivity

Human, Mouse, Rat

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
<b>IHC</b>	1:50 - 1:100
<b>IF</b>	1:50 - 1:200

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## 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.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
207	P31749

### Immunogen

A synthetic peptide of human AKT1

### Synonyms

AKT;CWS6;PKB;PKB-ALPHA;PRKBA;RAC;RAC-ALPHA;AKT1

## Product Information

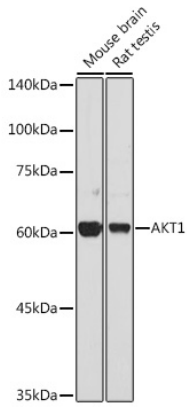
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of extracts of various cell lines, using AKT1 antibody (A16343) at 1:1000 dilution.

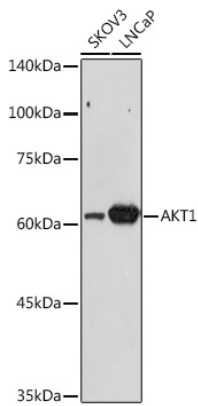
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Western blot analysis of extracts of various cell lines, using AKT1 antibody (A16343) at 1:1000 dilution.

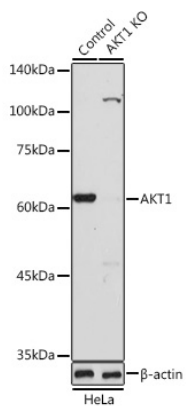
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 10s.



Western blot analysis of extracts of HeLa cells, using AKT1 antibody (A16343) at 1:1000 dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

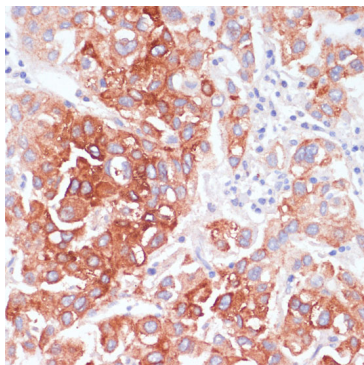
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

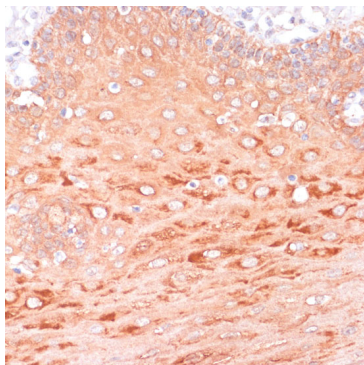
Exposure time: 10s.

## Validation Data

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Immunohistochemistry of paraffin-embedded human liver cancer using AKT1 antibody (A16343) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human esophageal using AKT1 antibody (A16343) at dilution of 1:100 (40x lens).