

# Product datasheet for TA373415S

## **AKT1 Rabbit Polyclonal Antibody**

## **Product data:**

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB,1:500 - 1:2000 IHC,1:50 - 1:200 IP,1:50 - 1:100
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho S473
Host:	Rabbit
lsotype:	lgG
Clonality:	Polyclonal
Immunogen:	A synthetic phosphorylated peptide around S473 of human AKT1 (NP_005154.2).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	48kDa/55kDa
Gene Name:	AKT serine/threonine kinase 1
Database Link:	<u>Entrez Gene 207 Human</u> <u>P31749</u>



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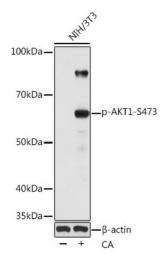
#### **GRIGENE** AKT1 Rabbit Polyclonal Antibody – TA373415S

Background:The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in<br/>serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated<br/>by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by<br/>mutations in the pleckstrin homology domain of AKT1. It was shown that the activation<br/>occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a<br/>critical mediator of growth factor-induced neuronal survival. Survival factors can suppress<br/>apoptosis in a transcription-independent manner by activating the serine/threonine kinase<br/>AKT1, which then phosphorylates and inactivates components of the apoptotic machinery.<br/>Mutations in this gene have been associated with the Proteus syndrome. Multiple<br/>alternatively spliced transcript variants have been found for this gene.

Synonyms:

AKT; C-AKT; MGC99656; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; RAC-PK-alpha

### **Product images:**



Western blot analysis of extracts of various cell lines, using Phospho-AKT1-S473 pAb ([TA373415]) at 1:1000 dilution.NIH/3T3 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 10s.

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