

Product datasheet for TA373415S

AKT1 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

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>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

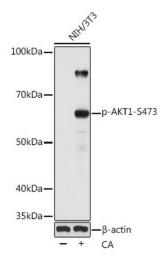
GRIGENE AKT1 Rabbit Polyclonal Antibody – TA373415S

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.

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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US