

# Product datasheet for TA373414

**Primary Antibodies** 

IHC,1:50 - 1:100 IF,1:50 - 1:200

Unmodified

Polyclonal

lot specific

Affinity purification

Unconjugated

48kDa/55kDa

P31749

Rabbit

lgG

Human, Mouse, Rat

A synthetic peptide of human AKT1

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

Shelf life: one year from despatch.

AKT serine/threonine kinase 1

Entrez Gene 207 Human

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

IF, IHC, WB

## **AKT1 Rabbit Polyclonal Antibody**

Recommended Dilution: WB.1:500 - 1:2000

## **Product data:**

**Product Type:** 

**Applications:** 

**Reactivity:** 

Host: Isotype:

**Clonality:** 

Immunogen:

Formulation:

**Purification:** 

**Conjugation:** 

Gene Name:

Database Link:

Predicted Protein Size:

Storage: Stability:

Concentration:

Modifications:

OriGene Technologies, Inc.

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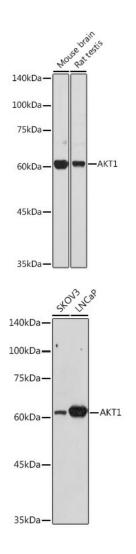
### Serigene AKT1 Rabbit Polyclonal Antibody – TA373414

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:

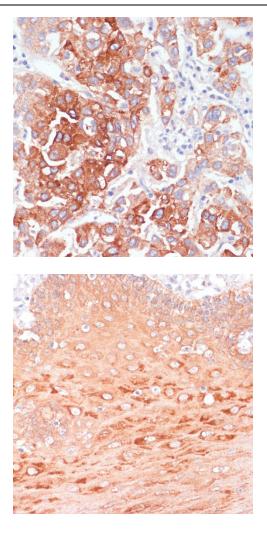
AKT; C-AKT; MGC99656; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; RAC-PK-alpha

### **Product images:**



Western blot analysis of extracts of various cell lines, using AKT1 antibody (TA373414) at 1:1000 dilution. | 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: 30s.

Western blot analysis of extracts of various cell lines, using AKT1 antibody (TA373414) at 1:1000 dilution. | 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 Enhanced Kit . | Exposure time: 10s.

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Immunohistochemistry of paraffin-embedded human liver cancer using AKT1 antibody (TA373414) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Immunohistochemistry of paraffin-embedded human esophageal using AKT1 antibody (TA373414) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

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