

# Product datasheet for TA373418

**Primary Antibodies** 

ICC/IF, IHC, IP, WB

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

Unmodified

Polyclonal

lot specific

P31749

Affinity purification

Unconjugated

Rabbit

lgG

Human, Mouse, Rat

A synthetic peptide of human AKT1/AKT2/AKT3

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

Shelf life: one year from despatch.

48kDa/55kDa/51kDa/54kDa

Entrez Gene 207 Human

AKT serine/threonine kinase 1

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

## **AKT1 Rabbit Polyclonal Antibody**

Recommended Dilution: WB,1:500 - 1:1000

## **Product data:**

**Product Type:** 

**Applications:** 

**Reactivity:** 

Host:

Isotype:

**Clonality:** 

Immunogen: Formulation:

Concentration:

**Purification:** 

**Conjugation:** 

Gene Name:

Database Link:

**Predicted Protein Size:** 

Storage:

Stability:

Modifications:

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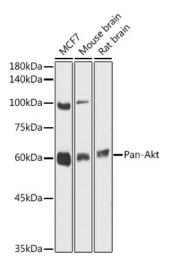
#### **GRIGENE** AKT1 Rabbit Polyclonal Antibody – TA373418

#### Background: Human AKT serine-threonine protein kinase family includes three members AKT1,AKT2, AKT3, which are also often referred to as protein kinase B alpha, beta, and gamma. These highly similar AKT proteins all have an N-terminal pleckstrin homology domain, a serine/threoninespecific kinase domain and a C-terminal regulatory domain. These proteins are phosphorylated by phosphoinositide 3-kinase (PI3K). AKT/PI3K forms a key component of many signalling pathways that involve the binding of membrane-bound ligands such as receptor tyrosine kinases, G-protein coupled receptors, and integrin-linked kinase. These AKT proteins therefore regulate a wide variety of cellular functions including cell proliferation, survival, metabolism, and angiogenesis in both normal and malignant cells. AKT proteins are recruited to the cell membrane by phosphatidylinositol 3,4,5-trisphosphate (PIP3) after phosphorylation of phosphatidylinositol 4,5-bisphosphate (PIP2) by PI3K. Subsequent phosphorylation of both threonine residue 308 and serine residue 473 is required for full activation of the AKT1 protein encoded by this gene.

Synonyms:

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

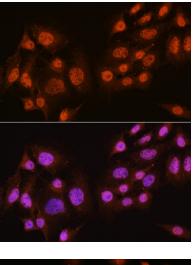
## **Product images:**

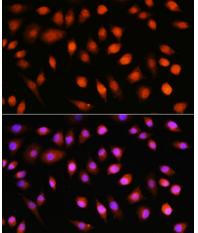


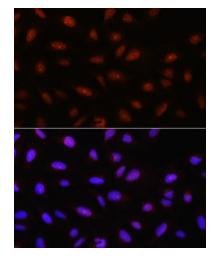
Western blot analysis of extracts of various cell lines, using Pan-Akt antibody (TA373418) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 30s.

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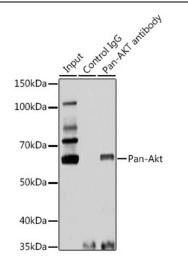


Immunofluorescence analysis of C6 cells using AKT1/AKT2/AKT3 antibody (TA373418) at dilution of 1:100. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of L929 cells using AKT1/AKT2/AKT3 antibody (TA373418) at dilution of 1:100. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of U-2 OS cells using AKT1/AKT2/AKT3 antibody (TA373418) at dilution of 1:100. Blue: DAPI for nuclear staining.

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Immunoprecipitation analysis of 25ug extracts of Rat brain cells using 3ug Pan-Akt antibody (TA373418). Western blot was performed from the immunoprecipitate using Pan-Akt antibody (TA373418) at a dilition of 1:1000.

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