

## Rabbit Akt1-S473 Monoclonal Antibody | anti-Akt1-S473 antibody

Phospho-Akt1-S473 Monoclonal Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                           |
|-----------|--------|-------------------|--------------------------------------------------------|
| AAA280965 | Rabbit | Human, Mouse, Rat | Immunofluorescence, Immunohistochemistry, Western Blot |

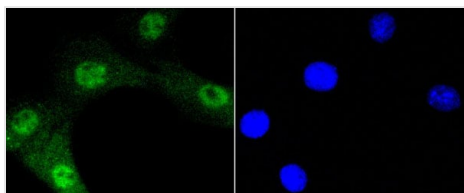
### PRODUCT SYNONYMS

Akt1-S473; Monoclonal Antibody; Phospho-Akt1-S473 Monoclonal Antibody; AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; anti-Akt1-S473 antibody

### PRODUCT SPECIFICATIONS

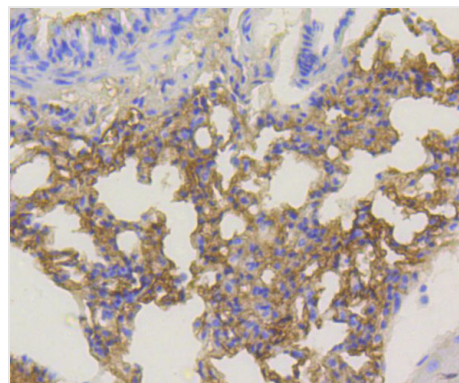
|                                                     |                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                              |
| Reactivity                                          | Human, Mouse, Rat                                                                   |
| Clonality                                           | Monoclonal                                                                          |
| Isotype                                             | IgG                                                                                 |
| Purity/Purification                                 | Affinity Purification                                                               |
| Sequence Length                                     | 480                                                                                 |
| Applicable Applications for anti-Akt1-S473 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)              |
| Immunogen                                           | A phospho specific peptide corresponding to residues surrounding S473 of human Akt1 |
| Storage Buffer                                      | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                   |
| Preparation and Storage                             | Store at -20 degree C. Avoid freeze/thaw cycles.                                    |

### IMAGES



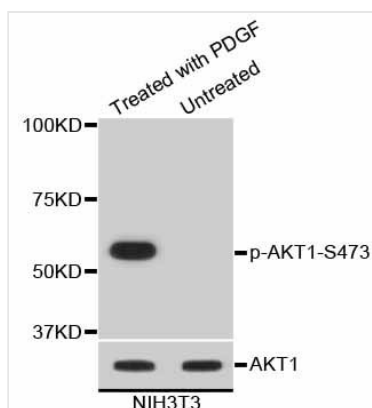
**IF (Immunofluorescence)**

Immunofluorescence analysis of NIH-3T3 cells using Phospho-Akt1-S473 antibody.



**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded mouse lung using Phospho-Akt1-S473 antibody at dilution of 1:100 (40x lens).



#### WB (Western Blot)

Western blot analysis of extracts of various cells, using Phospho-Akt1-S473 antibody. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA.

## ADDITIONAL INFORMATION

### Related Product Information for anti-Akt1-S473 antibody

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.

### Product Categories/Family for anti-Akt1-S473 antibody

Primary antibody

## NCBI AND UNIPROT INFORMATION

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| NCBI GI #                        | 60391226                                         |
| NCBI GeneID                      | 207                                              |
| UniProt Accession #              | P31749; Q9BWB6; B2RAM5; B7Z5R1                   |
| Molecular Weight                 | 56kDa                                            |
| NCBI Official Full Name          | RAC-alpha serine/threonine-protein kinase        |
| NCBI Official Synonym Full Names | AKT serine/threonine kinase 1                    |
| NCBI Official Symbol             | AKT1                                             |
| NCBI Official Synonym Symbols    | AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA |
| NCBI Protein Information         | RAC-alpha serine/threonine-protein kinase        |
| UniProt Protein Name             | RAC-alpha serine/threonine-protein kinase        |
| UniProt Gene Name                | <b>AKT1</b>                                      |
| UniProt Synonym Gene Names       | PKB; RAC; PKB; PKB alpha                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/akt1-s473-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/280965>