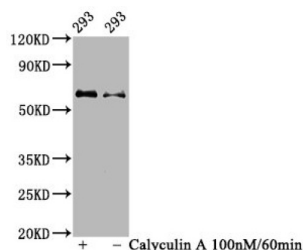


## RAC-Alpha Serine/threonine-Protein Kinase Phospho-Ser473 (AKT1 pS473) Antibody

Catalogue No.: abx243026



### Western Blot

Positive WB detected in: 293 whole cell lysate (treated with Calyculin A or not)

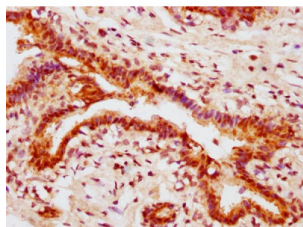
All lanes: Phospho-AKT1 antibody at 1.08 µg/ml

Secondary

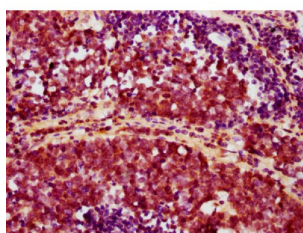
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 60 KDa

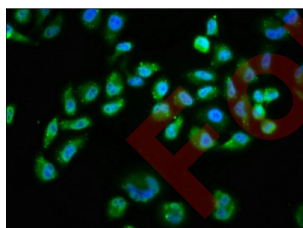
Observed band size: 60 KDa



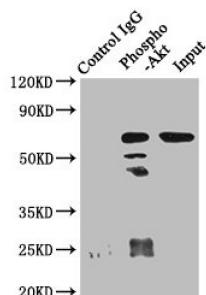
Immunohistochemistry analysis of AKT1 (pSer473) Antibody diluted at 1/100 and staining in paraffin-embedded human breast cancer. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunohistochemistry analysis of AKT1 (pSer473) Antibody diluted at 1/100 and staining in paraffin-embedded human lung cancer. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of Hela cells (treated with 100mM EGF for 20min) with AKT1 (pSer473) Antibody at 1/68, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was AF488-conjugated Goat Anti-Rabbit IgG (H+L).



Immunoprecipitating Phospho-AKT1 in 293 whole cell lysate treated with Calyculin A

Lane 1: Rabbit control IgG (1µg) instead of AKT1 (pSer473) Antibody in 293 whole cell lysate treated with Calyculin A. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: RAC-Alpha Serine/threonine-Protein Kinase Phospho-Ser473 Antibody (3 µg) + 293 whole cell lysate treated with Calyculin A (1 mg)

Lane 3: 293 whole cell lysate treated with Calyculin A (20 µg)

# Datasheet

Version: 2.0.0  
Revision date: 09 Apr 2025



AKT1 (pSer473) Antibody is a Monoclonal Antibody against AKT1.

|                               |                                                                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target:</b>                | RAC-Alpha Serine/threonine-Protein Kinase Phospho-Ser473 (AKT1 pS473)                                                                                   |
| <b>Clonality:</b>             | Monoclonal                                                                                                                                              |
| <b>Target Modification:</b>   | Ser473                                                                                                                                                  |
| <b>Modification:</b>          | Phosphorylation                                                                                                                                         |
| <b>Reactivity:</b>            | Human                                                                                                                                                   |
| <b>Tested Applications:</b>   | ELISA, WB, IHC, IF/ICC, IP                                                                                                                              |
| <b>Host:</b>                  | Rabbit                                                                                                                                                  |
| <b>Recommended dilutions:</b> | WB: 1/500 - 1/5000, IHC: 1/50 - 1/200, IF/ICC: 1/20 - 1/200, IP: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user. |
| <b>Conjugation:</b>           | Unconjugated                                                                                                                                            |
| <b>Immunogen:</b>             | A synthesized peptide derived from human Phospho-AKT1 (Ser473).                                                                                         |
| <b>Isotype:</b>               | IgG                                                                                                                                                     |
| <b>Form:</b>                  | Liquid                                                                                                                                                  |
| <b>Purification:</b>          | Purified by affinity chromatography.                                                                                                                    |
| <b>Storage:</b>               | Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.                                                                                         |
| <b>UniProt Primary AC:</b>    | P31749 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )                                                                                             |
| <b>KEGG:</b>                  | hsa:207                                                                                                                                                 |
| <b>String:</b>                | <a href="#">9606.ENSP00000451828</a>                                                                                                                    |
| <b>Buffer:</b>                | PBS, pH 7.4, 150 mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                          |
| <b>Note:</b>                  | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.              |