BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-Phospho-AKT1/2/3 (S473) Antibody

**Catalog Number:** P00024-7

## About AKT1/2/3

Akt, also referred to as PKB or Rac, plays a critical role in controlling survival and apoptosis. This protein kinase is activated by insulin and various growth and survival factors to function in a wortmannin-sensitive pathway involving PI3 kinase. Akt is activated by phospholipid binding and activation loop phosphorylation at Thr308 by PDK1 and by phosphorylation within the carboxy terminus at Ser473. The previously elusive PDK2 responsible for phosphorylation of Akt at Ser473 has been identified as mammalian target of rapamycin (mTOR) in a rapamycin-insensitive complex with rictor and Sin1.

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## Overview

| | |
|---|---|
| Product Name | Anti-Phospho-AKT1/2/3 (S473) Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-Phospho-AKT1/2/3 (S473) Antibody catalog # P00024-7. Tested in WB, IHC, ICC, IF applications. This antibody reacts with Human, Mouse, Rat. |
| Application | IF, IHC, ICC, WB |
| Clonality | Polyclonal |
| Formulation | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg stabilizing protein and 50% glycerol<br>This antibody is supplied in a stabilized formulation.<br>Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | 12 months from date of receipt□-20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing. |
| Host | Rabbit |
| Uniprot ID | P31749/P31751/Q9Y243 |

## Technical Details

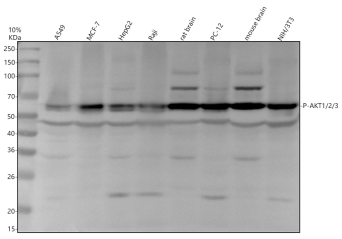
| | |
|---|---|
| Immunogen | A synthesized peptide derived from human Akt around the phosphorylation site of Ser473. |

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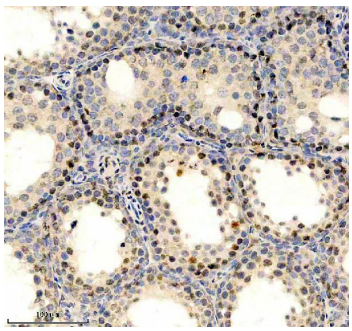
| | |
|---|---|
| Form | Liquid |
| Concentration | 500 ug/ml |
| Purification | Protein A affinity purified. |
| Suggested Dilutions | Western blot, 1:500-2000<br>Immunohistochemistry, 1:50-200<br>Immunocytochemistry/Immunofluorescence, 1:50-200 |

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# Anti-Phospho-AKT1/2/3 (S473) Antibody (P00024-7) Images




Western blot analysis of AKT1/2/3 using anti-AKT1/2/3 antibody (P00024-7). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human Raji whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat PC-12 whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse NIH/3T3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AKT1/2/3 antigen affinity purified polyclonal antibody (P00024-7) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for AKT1/2/3 at approximately 60 kDa. The expected band size for AKT1/2/3 is at 56 kDa.



IHC analysis of AKT1/2/3 using anti-AKT1/2/3 antibody (P00024-7). AKT1/2/3 was detected in a paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-AKT1/2/3 Antibody (P00024-7) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Anti-Phospho-AKT1/2/3 (S473) Antibody

For Research Use Only. Not for use in diagnostic procedures.