

Phospho-Akt (Ser473) Polyclonal Antibody

CATALOG #: 3257-100
AMOUNT: 100 µg
LOT #: _____
HOST: Rabbit

FORMULATION:

100 µg (0.5 mg/ml) peptide affinity purified rabbit anti-Phospho-Akt (Ser473) polyclonal antibody in phosphate buffered saline (PBS), containing 50% glycerol, 1% BSA, 0.02% thimerosal.

SPECIES REACTIVITY: human, mouse, rat

BACKGROUND:

Akt, also referred to as PKB and RAC, is the cellular homologue of the viral oncogene v-Akt. This protein kinase is activated by insulin and various growth factors and functions in a pathway involving PI3 kinase as activation is sensitive to wortmanin. Recent evidence suggests that Akt functions to promote cell survival by actively inhibiting apoptosis, although the pathways involved have not been identified. Akt is activated by phospholipid binding and phosphorylation within the activation loop at Thr308 and within the C-terminus at Ser473.

SPECIFICITY:

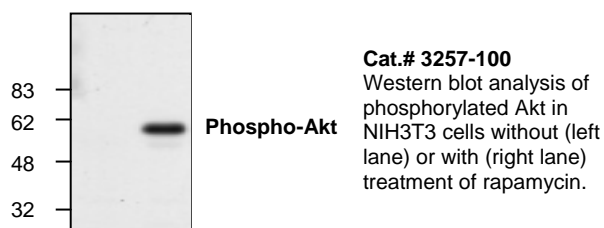
The phospho-Akt (Ser473) antibody detects Akt1 when phosphorylated at Ser473 and Akt2 and Akt3 when phosphorylated at equivalent sites.

APPLICATION AND USAGE:

The antibody can be used for Western blotting (0.5-4 µg/ml) and immunoprecipitation (10-20 µg/ml). However, the optimal conditions should be determined individually.

STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**RELATED PRODUCTS:**

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies