

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:

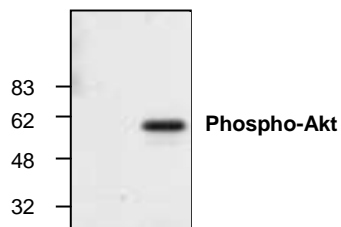
The phospho-Akt (Ser473) antibody detects Akt1 when phosphorylated at Ser473 and Akt2 and Akt3 when phosphorylated at equivalent sites.

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/defrost cycles.

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Western blot analysis of phosphorylated Akt in NIH3T3 cells without (left lane) or with (right lane) induction by PDGF.

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