

anti-Akt_{1/2}

Cat #: HM1007
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Akt1 (also referred to as PKB) and related Akt2 are serine-threonine protein kinase that exhibit sequence homology with protein kinase A and C. Both Akt1 and Akt2 are rapidly and specifically activated by diverse ligands such as PDGF, EGF, and basic FGF. The activation occurs through phosphatidylinositol 3-kinase. PI 3-kinase recruits Akt to the membrane, where it is activated by PDK1 phosphorylation. Once phosphorylated, Akt dissociates from the membrane and phosphorylates targets in the cytoplasm and nucleus. Akt mediates many of the downstream events of PI 3-kinase. Overexpression or inappropriate activation of Akt has been seen in many types of cancer.

SPECIFICITY

This antibody specifically reacts with both Akt 1 and Akt2 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular Weight of Akt1/2: 60 kDa.

Western blotting positive controls: MCF7; NIH/3T3

IMMUNOGEN

A recombinant protein corresponding to C-terminus of human Akt1.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCE

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