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Purified Rabbit anti-Human Akt1 / PKB Polyclonal Antibody

CLX333AP

Lot:

Clone: Polyclonal

Isotype: Rabbit None

Specificity: The polyclonal antibody reacts with Akt1 (recognized epitope: between aa 85-100 of Akt1/PKB). Akt/PKB protein kinases family has a three mammalian members identified to date (Akt1, Akt2, Akt3). Human Akt1 has a predicted molecular weight of 55.7 kDa.

Immunogen: Synthetic peptide (coupled with KLH) derived from amino acid sequence 85-100 of human Akt1. This immunogen sequence has 100% homology with mouse and rat Akt1/PKB.

Species Reactivity: Human

Application: **Western Blotting**
Recommended dilution: 0.5-1 mg/ml
Positive material: RAJI human Burkitt lymphoma cell line
Sample preparation: Re-suspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris-Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing/reducing Laemmli SDS-PAGE sample buffer. Boil for 5 min.
Application note: Both reducing and non-reducing conditions. Reducing conditions are recommended.

Purity: > 95% (by SDS-PAGE)

Purification: Purified from rabbit serum by immunoaffinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: The reagent is provided in phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

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Background:

Serine/threonine protein kinase **Akt/PKB** (Protein Kinase B) plays important roles in cell growth, metabolism, proliferation and survival. Upon extracellular stimulus that leads to activation of phosphatidylinositol 3-kinase (PI3K), Akt is recruited from the cytosol to the plasma membrane through binding 3'phosphoinositides and is phosphorylated. Active Akt dissociates from the plasma membrane to gain access to various substrates in different sub-cellular locations by translocating to cytosol and nucleus.

References:

*Ananthanarayanan B, Fosbrink M, Rahdar M, Zhang J.: Live-cell molecular analysis of AKT activation reveals roles for activation loop phosphorylation. J Biol Chem. 2007 Oct 10.

This product is made available in collaboration with Exbio Praha, a.s.

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