

Purified Rabbit Anti-Akt/PKB

Catalog Number: TP371

Lot Number: 032000

Content: Protein A purified rabbit IgG, 200 µg, with 0.1% sodium azide, lyophilized.

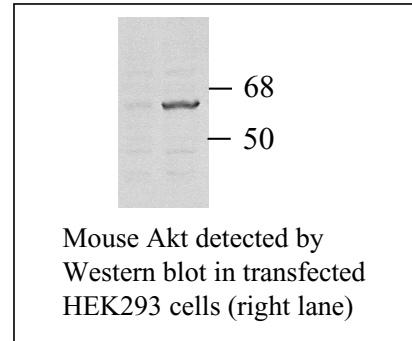
(Reconstitute to 1 mg/ml by adding 200 µl H₂O)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with mouse and human Akt/PKB, was generated using *E. coli*-expressed mouse Akt α (a.a. 375-479) as an immunogen. The tested titer for Western blot is 1:5,000.

Cross-reactivity to Akt of other species has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: Akt (also termed PKB, or RAC (Related to PKA and PKC)), is the cellular homologue of the viral oncoprotein v-Akt. Akt is a serine / threonine kinases that consist of an N-terminal PH domain, a kinase domain



and a C-terminal domain similar to that of the PKC family. Akt α contains 480 amino acids, and can be activated by receptor tyrosine kinases through the PI 3-kinase pathway. Akt has been shown to suppress apoptosis. Recent study suggests that Akt may also be part of the NF- κ B activation pathway.

References:

1. Bellacosa, A. et al. (1991) A retroviral oncogene, akt, encoding a serine-threonine kinase containing an SH2-like region. *Science* 254:274-277
2. Kauffmann-Zeh, A. et al. (1997) Suppression of c-Myc-induced apoptosis by Ras signalling through PI(3)K and PKB. *Nature* 285:544-548
3. Romashkova, J.A. and Makarov, S.S. (1999) NF- κ B is a target of Akt in anti-apoptotic PDGF signalling. *Nature* 401:86-90