

## Certificate of Analysis

**Recombinant Human AKT2  
Expressed in Human Cells**

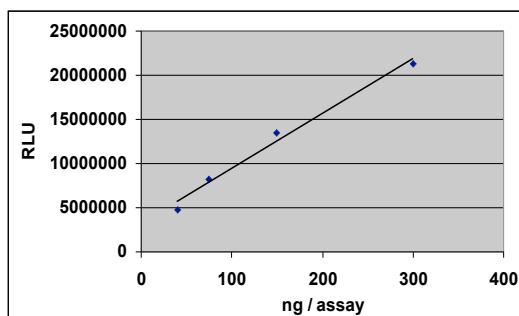
**AKT2**HumaXpress  
Cat #: HZ-2010b Lot #: CHI-0307

**Product Description:** Recombinant human full length Akt2/PKB $\beta$  (Accession No: NM\_001626) with an N-terminal GST-tag, expressed in engineered human cells.

**Specific Activity:** 128U/mg. One unit of kinase activity is equivalent to 1nmole ATP consumed in the kinase reaction assay in the presence of 50 $\mu$ M Crosstide substrate per minute at 25 $^{\circ}$ C with a final ATP concentration of 100 $\mu$ M.

**Quality Control Testing:**

**AKT2/PKB $\beta$  activity Assay:** Akt2/PKB $\beta$  was assayed using 50 $\mu$ M Crosstide substrate peptide after stimulation. The Akt2 protein was incubated with the substrate at 25 $^{\circ}$ C for 30 minutes. Activity was measured and the luminescent signal was converted to the ATP consumed in the reaction.



**Purity Confirmation:** The proteins were resolved through SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue. Arrow indicates the GST-fused Akt2.

**Formulation:** 5 $\mu$ g of recombinant protein in 50 $\mu$ l of 50mM Tris, pH7.4, 150mM NaCl, 5mM DTT, 1mM PMSF. Frozen solution.

**Storage and Stability:** Stable for one year at -80 $^{\circ}$ C from date of shipment (Avoid repeated freezing and thawing).

**Reference**

Wang, Y., et al (1998), *Cell Growth & Differentiation*, 9, 513-522

Yuan, Z. Q., et al (2000), *Oncogene*, 19, 2324-2330

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