

# Product Information

## **Anti-AKT1 (ab2) antibody produced in chicken, affinity isolated antibody**

### **Catalog Number **GW22775****

Formerly listed as GenWay Catalog Number 15-288-22775, RAC-alpha serine/threonine-protein kinase Antibody.

Storage Temperature –20 °C

Synonyms: Serine/threonine protein kinase, EC 2.7.11.1; RAC-PK-alpha; Protein kinase B; PKB; C-AKT

### **Product Description**

General protein kinase capable of phosphorylating several known proteins. Phosphorylates TBC1D4. Signals downstream of phosphatidylinositol 3-kinase (PI(3)K) to mediate the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF). Insulin and insulin-like growth factor I (IGF-I). Plays a role in glucose transport by mediating insulin-induced translocation of the GLUT4 glucose transporter to the cell surface. Mediates the antiapoptotic effects of IGF-I. Mediates insulin-stimulated protein synthesis, partly by playing a role in both insulin-induced phosphorylation of 4E-BP1 and in insulin-induced activation of p70 S6 kinase. Promotes glycogen synthesis by mediating the insulin-induced activation of glycogen synthase.

NCBI Accession number: NP\_005154.1  
Swiss Prot Accession number: P31749

Gene Information: Human .. AKT1 (207)

Immunogen: Recombinant protein Serine/threonine protein kinase

Immunogen Sequence: GI #62241011, sequence 106 – 122

The product is a clear, colorless solution in phosphate buffered saline, pH 7.2, containing 0.02% sodium azide.

Species Reactivity: Human, mouse, rat

Tested Applications: ELISA, WB

Recommended Dilutions: Recommended starting dilution for Western blot analysis is 1:500, for tissue or cell staining 1:200.

**Note:** Optimal concentrations and conditions for each application should be determined by the user.

### **Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### **Storage/Stability**

For continuous use, store at 2–8 °C for up to one week. For extended storage, store in –20 °C freezer in working aliquots. Repeated freezing and thawing, or storage in “frost-free” freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

RC,PHC 03/12-1