

Product Information

Anti-AKT1 (ab1) antibody produced in chicken, affinity isolated antibody

Catalog Number **GW22757**
Formerly listed as GenWay Catalog Number 15-288-
22757, 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 2 –
200

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

Species Reactivity: Human, mouse, rat, cow and
xenopus

Tested Applications: 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