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35-1408: Polyclonal Antibody to Akt (Ab-473)

Clonality: Polyclonal
Application: IHC,WB
Reactivity: Mouse,Human

 Gene :
 AKT1

 Gene ID :
 207

 Uniprot ID :
 P31749

 Format :
 Purified

Alternative Name: AKT, C-AKT, PKB, PKB-alpha, RAC

Isotype: Rabbit IgG

Immunogen Information: Peptide sequence around aa. 471~475 (Q-F-S-Y-S) derived from Human Akt.

Description

General protein kinase capable of phosphorylating several known proteins. Phosphorylates TBC1D4. Signals downstream of phosphatidylinositol 3-kinase (PI3K) 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 by phosphorylating TSC2 at 'Ser-939' and 'Thr-1462', thereby activating mTORC1 signaling and leading to both phosphorylation of 4E-BP1 and in activation of RPS6KB1. Promotes glycogen synthesis by mediating the insulin-induced activation of glycogen synthase.

Product Info

Amount : 50 μl / 100 μl

Content: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl, 0.02% sodium azide and 50% glycerol.

Storage condition : Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Predicted MW: 60kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

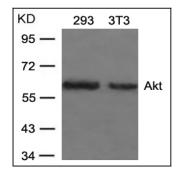


Figure 1: Western blot analysis of extracts from 293 and 3T3 cells using Akt(Ab-473) Antibody 35-1408.



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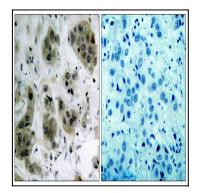


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Akt(Ab-473) Antibody 35-1408 (left) or the same antibody preincubated with blocking peptide(right).