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35-1053: Polyclonal Antibody to Akt (Phospho-Ser473)

Clonality: Polyclonal Application: IHC,WB

Reactivity: Rat, Mouse, Human

 Gene :
 AKT1

 Gene ID :
 207

 Uniprot ID :
 P31749

 Format :
 Purified

Alternative Name: C-AKT, PKB, PKB-alpha, RAC, RAC-PK-alpha, akt s473, akt ser473 antibody

Isotype: Rabbit IgG

Immunogen Information : Peptide sequence around phosphorylation site of serine 473 (Q-F-S(p)-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. Baudhuin LM, et al. (2004) FASEB J Feb; 18(2): 341-3. Min YH, et al. (2004) Cancer Res; 64(15): 5225-31. Feng J, et al. (2004) J Biol Chem; 279(34): 35510-7.

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:

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

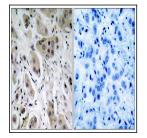


Figure 1: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Akt(Phospho-Ser473) Antibody 35-1053 (left) or the same antibody preincubated with blocking peptide(right).



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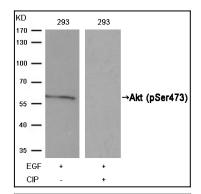


Figure 2: Western blot analysis of extracts from 293 cells, treatedwith EGF or calf intestinal phosphatase (CIP), using Akt(Phospho-Ser473) Antibody 35-1053.

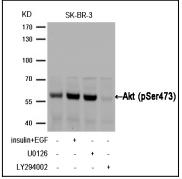


Figure 3: Western blot analysis of extracts from SK-BR-3 cells,treated with insulin and EGF, and pretreated with U0126and LY294002 cells using Akt (Phospho-Ser473) Antibody 35-1053.

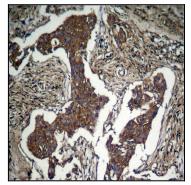


Figure 4: Immunohistochemical analysis of paraffinembeddedhuman Lung carcinoma tissue usingAkt (Phospho-Ser473) Antibody 35-1053.