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35-1054: Polyclonal Antibody to Akt (Phospho-Thr308)

Clonality :	Polyclonal
Application :	IHC,WB,IF
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
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of threonine 308 (M-K-T(p)-F-C) 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. Tremblay F, et al. (2005)Diabetes; 54(9): 2674-84. Xu BE, et al. (2005)J Biol Chem; 280(40): 34218-23. Samuels Y, et al. (2005)Cancer Cell; 7(6): 561-73. Di Maira G, et al. (2005)Cell Death Differ; 12(6): 668-77.

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, Immunofluorescence: 1:100~1:200

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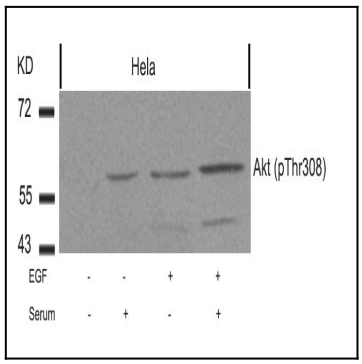

Figure 1: Western blot analysis of extracts from Hela cells untreated or treated with EGF, serum or both using Akt(Phospho-Thr308) Antibody 35-1054 .

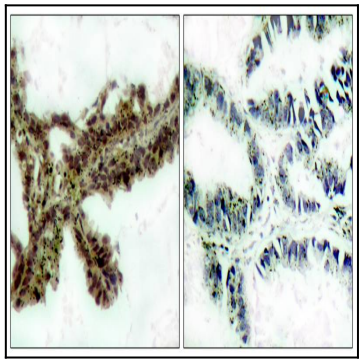

Figure 2: Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using Akt (Phospho-Thr308) Antibody 35-1054 (left) or the same antibody preincubated with blocking peptide 51055 (right).

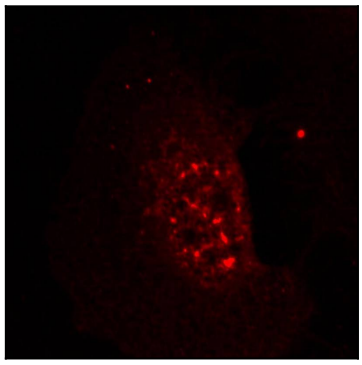

Figure 3: Immunofluorescence staining of methanol-fixed Hela cells showing nuclear dot staining using Akt(Phospho-Thr308) Antibody 35-1054 .

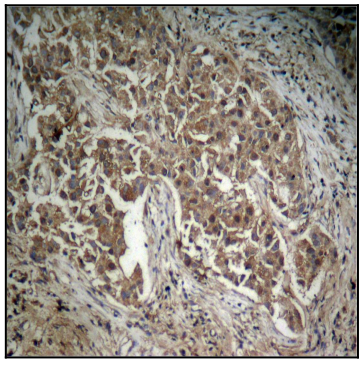

Figure 4: Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using Akt (Phospho-Thr308) Antibody 35-1054 .

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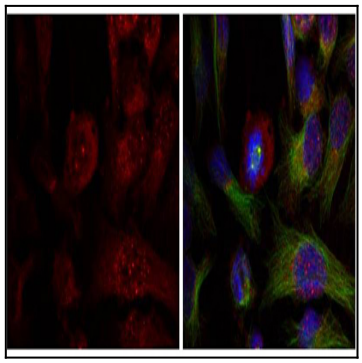

Figure 5 : Immunofluorescence staining of methanol-fixed Hela cells showing nuclear dot staining using Akt (Phospho-Thr308) Antibody 35-1054 .