

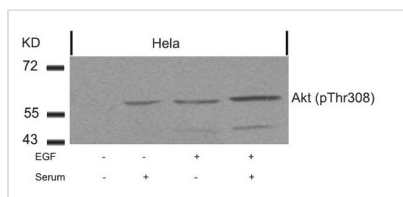


Phospho-AKT1 (Thr308) Antibody

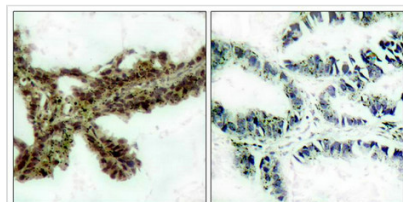
Product Code	CSB-PA010227
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P31749
Immunogen	Peptide sequence around phosphorylation site of threonine 308 (M-K-T(p)-F-C) derived from Human Akt.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of Akt only when phosphorylated at threonine 308.
Tested Applications	ELISA,WB,IHC,IF;WB:1:500-1:1000,IHC:1:50-1:100,IF:1:100-1:200
Relevance	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.
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography
Clonality	Polyclonal
Alias	C-AKT; PKB; PKB-alpha; RAC; RAC-PK-alpha
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	AKT1



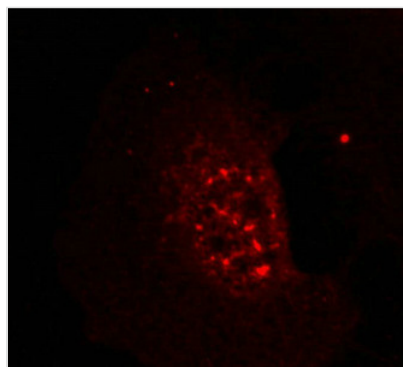
Image



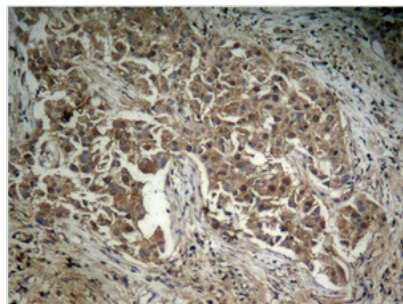
Western blot analysis of extracts from HeLa cells untreated or treated with EGF, serum or both using Akt(Phospho-Thr308) Antibody.



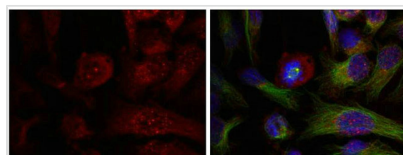
Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using Akt (Phospho-Thr308) Antibody (left) or the same antibody preincubated with blocking peptide (right).



Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear dot staining using Akt(Phospho-Thr308) Antibody.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using Akt (Phospho-Thr308) Antibody.



Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear dot staining using Akt (Phospho-Thr308) Antibody.

Product Modify

Phospho-Thr308