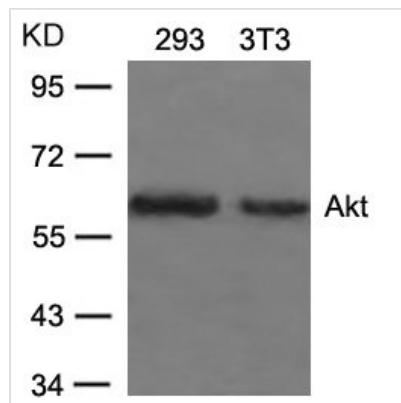


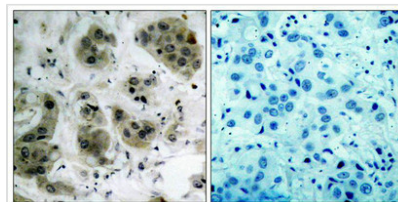


AKT1 (Ab-473) Antibody

Product Code	CSB-PA063905
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P31749
Immunogen	Peptide sequence around aa. 471~475 (Q-F-S-Y-S) derived from Human Akt.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total Akt protein.
Tested Applications	ELISA,WB,IHC;WB:1:500-1:1000,IHC:1:50-1:200
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. 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. Ayala G, et al. (2004) Clin Cancer Res; 10(19): 6572-8. Lungu AO, et al. (2004) J Biol Chem; 279(47): 48794-800.
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 peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Clonality	Polyclonal
Alias	AKT; C-AKT; PKB; PKB-alpha; RAC
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	AKT1
Image	



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



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