

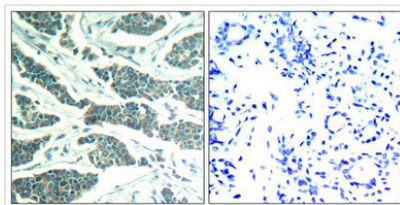


AKT1/AKT2/AKT3 (Ab-315/316/312) Antibody

Product Code	CSB-PA054234
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P31749/P31751/Q9Y243
Immunogen	Peptide sequence around aa.313~317/314~318/310~314 (P-E-Y-L-A) derived from Human AKT1/AKT2/AKT3.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total AKT1/AKT2/AKT3 protein.
Tested Applications	ELISA,IHC;IHC:1:50-1:100
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. /General protein kinase capable of phosphorylating several known proteins. /IGF-1 leads to the activation of AKT3, which may play a role in regulating cell survival. Capable of phosphorylating several known proteins. Truncated isoform 2/PKB gamma 1 without the second serine phosphorylation site could still be stimulated but to a lesser extent. Nelms K, et al. (1999) Annu Rev Immunol. 17:701-738. Malabarba M G, et al. (1996) Biochem. J. 319:865-872. Hou J, et al. (1994) Science. 265:1701-1706. Quelle F W, et al. (1995) Mol Cell Biol. 15: 3336-3343. Takeda K, et al. (1996) Nature. 380: 627-630.
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	RAC-PK-alpha; Protein kinase B;
Product Type	Polyclonal Antibody
Target Names	AKT1/AKT2/AKT3



Image



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using AKT1/AKT2/AKT3(Ab-315/316/312) Antibody(left) or the same antibody preincubated with blocking peptide(right).