Akt(Phospho-Ser473) Antibody

Catalog No: #11054

Package Size: #11054-1 50ul #11054-2 100ul #11054-4 25ul



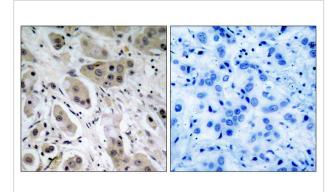
Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description			
Product Name	Akt(Phospho-Ser473) Antibody		
Host Species	Rabbit		
Clonality	Polyclonal		
Purification	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 chromatogramphy using non-phosphopeptide.		
Applications	WB IHC		
Species Reactivity	Hu Ms Rt		
Specificity	The antibody detects endogenous level of Akt only when phosphorylated at serine 473.		
Immunogen Type	Peptide-KLH		
Immunogen Description	Peptide sequence around phosphorylation site of serine 473 (Q-F-S(p)-Y-S) derived from Human Akt.		
Target Name	Akt		
Modification	Phospho-Ser473		
Other Names	C-AKT; PKB; PKB-alpha; RAC; RAC-PK-alpha;akt s473;akt 473;akt ser473 antibody		
Accession No.	Swiss-Prot: P31749NCBI Protein: NP_001014431.1		
Concentration	1.0mg/ml		
Formulation	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	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.		

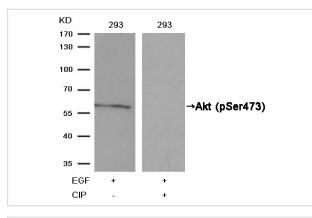
Application Details

Predicted MW: 60kd		
Western blotting: 1:500~1:1000		
Immunohistochemistry: 1:50~1:100		

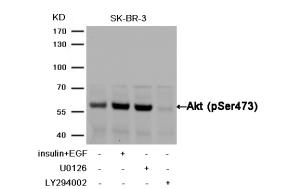
Images



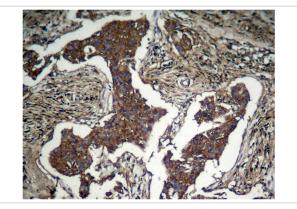
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Akt(Phospho-Ser473) Antibody #11054(left) or the same antibody preincubated with blocking peptide(right).



Western blot analysis of extracts from 293 cells, treated with EGF or calf intestinal phosphatase (CIP), using Akt(Phospho-Ser473) Antibody #11054.



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#11054.



Immunohistochemical analysis of paraffinembeddedhuman Lung carcinoma tissue usingAkt (Phospho-Ser473) Antibody #11054.

Background

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.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.