Akt(Phospho-Thr308) Antibody

Catalog No: #11055

Package Size: #11055-1 50ul #11055-2 100ul

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

Description

Product Name	Akt(Phospho-Thr308) 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 IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Akt only when phosphorylated at threonine 308.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 308 (M-K-T(p)-F-C) derived from Human Akt.
Target Name	Akt
Modification	Phospho
Other Names	C-AKT; PKB; PKB-alpha; RAC; RAC-PK-alpha
Accession No.	Swiss-Prot: P31749NCBI Protein: NP_001014431.1
Uniprot	P31749
GeneID	207;
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

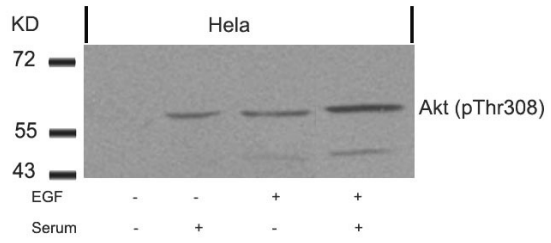
Predicted MW: 60kd

Western blotting: 1:500~1:1000

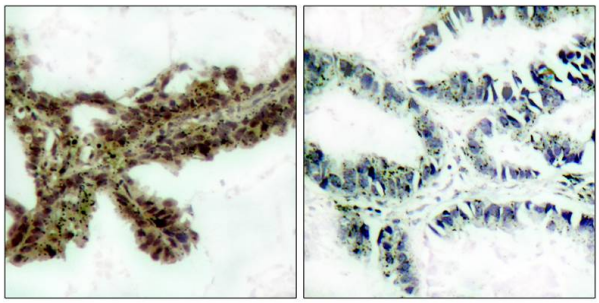
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

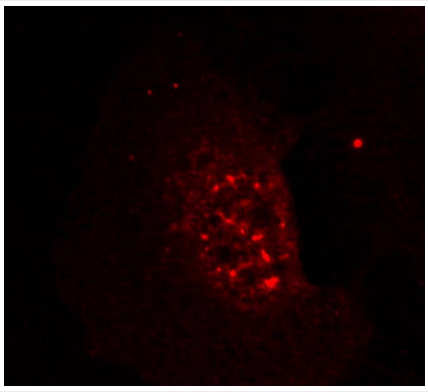
Images



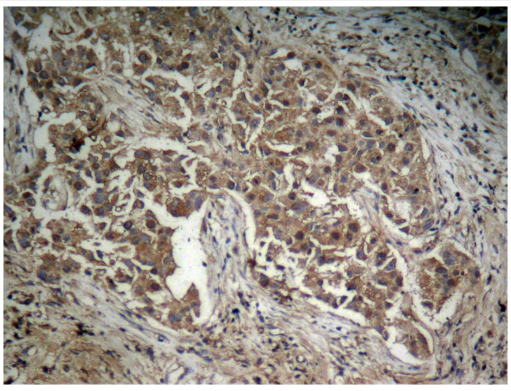
Western blot analysis of extracts from Hela cells untreated or treated with EGF, serum or both using Akt(Phospho-Thr308) Antibody #11055.



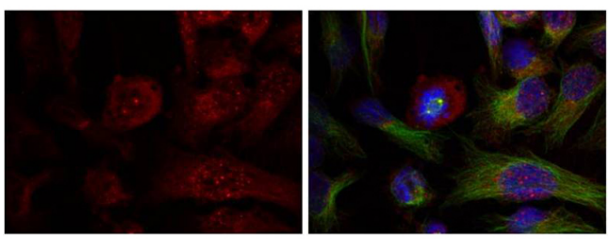
Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using Akt (Phospho-Thr308) Antibody #11055 (left) or the same antibody preincubated with blocking peptide #51055 (right).



Immunofluorescence staining of methanol-fixed Hela cells showing nuclear dot staining using Akt(Phospho-Thr308) Antibody #11055.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using Akt (Phospho-Thr308) Antibody #11055.



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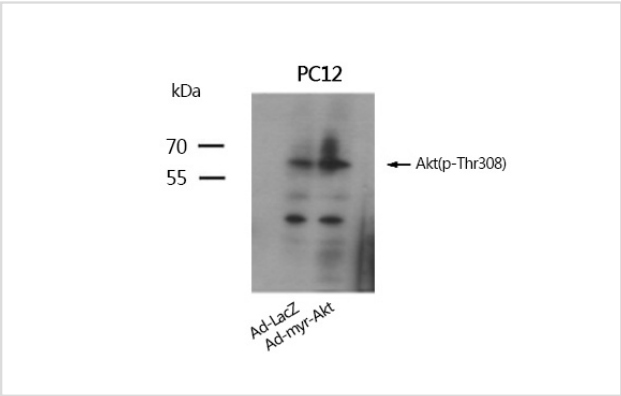

Western blot analysis using Akt(Phospho-Thr308) Antibody #11055.

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.

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.

Note: This product is for in vitro research use only