

Akt(Phospho-Thr308) Antibody

Catalog No: #11055



Package Size: #11055-1 50ul #11055-2 100ul #11055-4 25ul

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 chromatography 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-Thr308
Other Names	C-AKT; PKB; PKB-alpha; RAC; RAC-PK-alpha
Accession No.	Swiss-Prot: P31749NCBI Protein: NP_001014431.1
Concentration	1.0mg/ml
Formulation	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.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

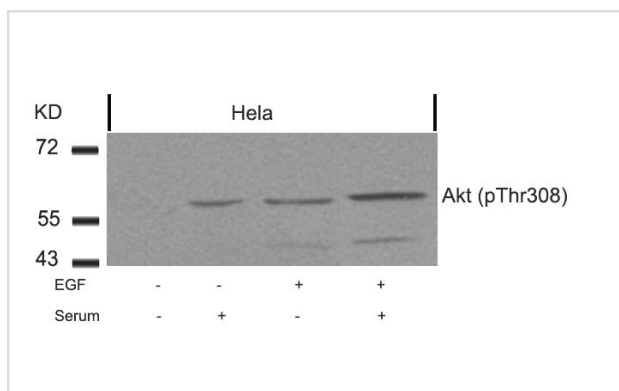
Predicted MW: 60kd

Western blotting: 1:500~1:1000

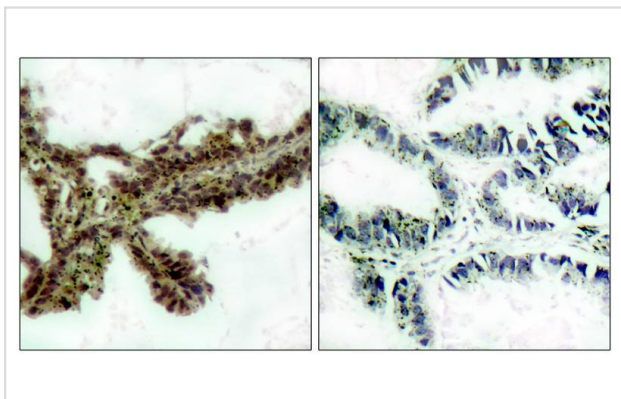
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

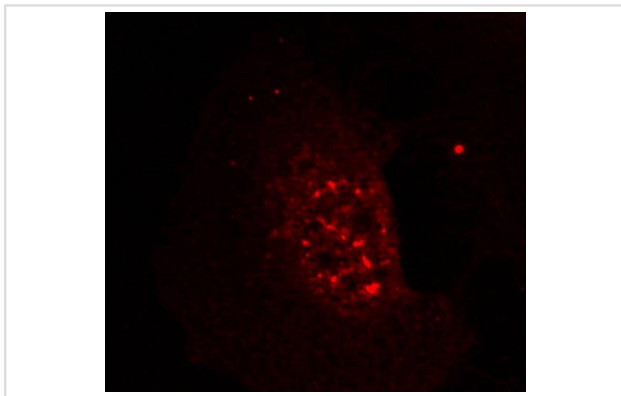
Images



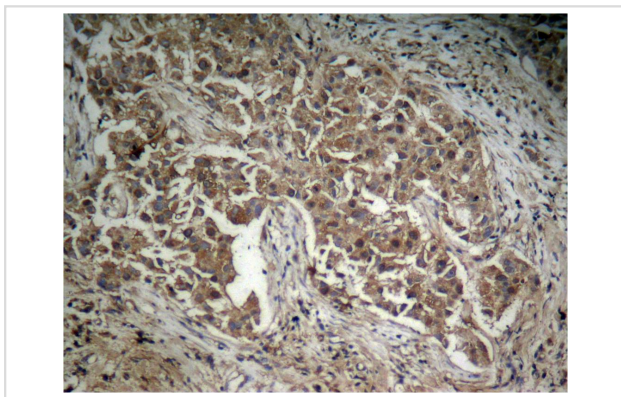
Western blot analysis of extracts from HeLa cells untreated or treated with EGF, serum or both using Akt(Phospho-Thr308) Antibody #11055.



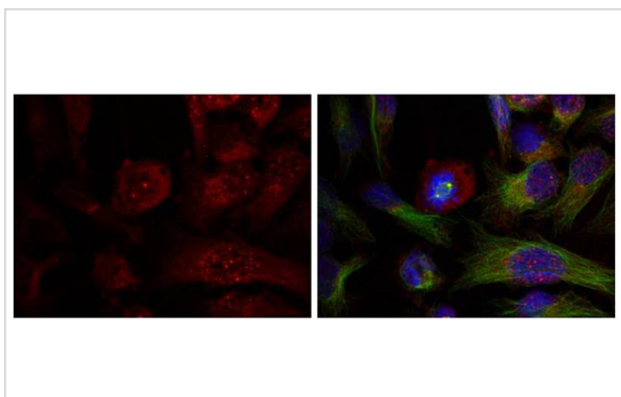
Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, using Akt (Phospho-Thr308) Antibody #11055 (left) or the same antibody preincubated with blocking peptide #51055 (right).



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.



Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear dot staining 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.

Published Papers

Alexandra V. Andreeva, Jingyan Han et al., T-cadherin modulates endothelial barrier function, Journal of cellular Physiology, 223(1) 1, 94 - 102(2010)

[PMID:20039275](#)

Nan Li, Heng Lu, Chunyan Chen et al., Loss of fatty acid synthase inhibits the B⁺HER2-PI3K/Akt axisB[±] activity and malignant phenotype of Caco-2 cells Lipids in Health and Disease., Lipids in Health and Disease., 12:83(2013)

[PMID:23725225](#)

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