

Akt2(Phospho-Ser474) Antibody

Catalog No: #11124



Package Size: #11124-1 50ul #11124-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Akt2(Phospho-Ser474) 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
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of Akt2 only when phosphorylated at serine 474.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 474 (Q-F-S(p)-Y-S) derived from Human Akt2.
Conjugates	Unconjugated
Target Name	Akt2
Modification	Phospho
Other Names	PKB beta; Protein kinase B; RAC-PK-beta
Accession No.	Swiss-Prot: P31751NCBI Protein: NP_001617.1
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.

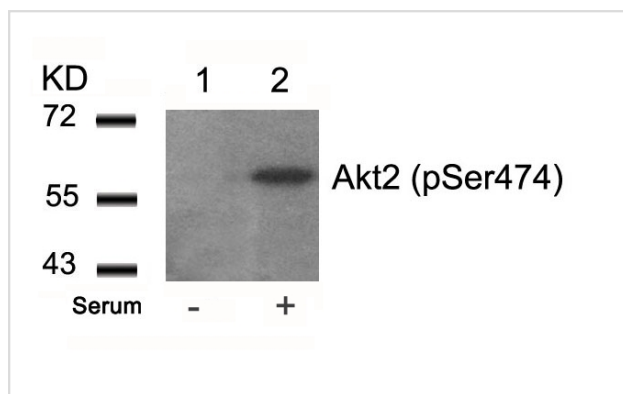
Application Details

Predicted MW: 60kd

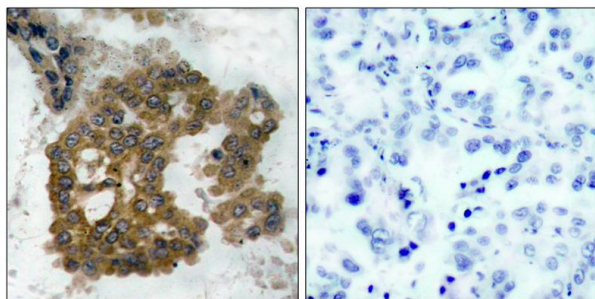
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

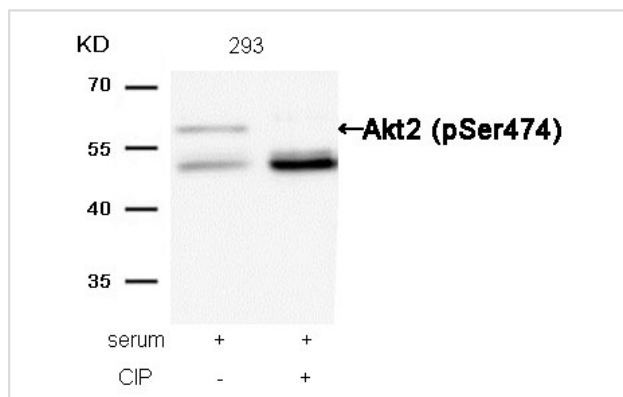
Images



Western blot analysis of extracts from 293 cells untreated(lane 1) or treated with serum(lane 2) using Akt2(Phospho-Ser474) Antibody #11124.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using Akt2(Phospho-Ser474) Antibody #11124(left) or the same antibody preincubated with blocking peptide(right).



Western blot analysis of extracts from 293 cells, treated with serum or calf intestinal phosphatase (CIP), using Akt2 (Phospho-Ser474) Antibody #11124.

Background

General protein kinase capable of phosphorylating several known proteins.

Sun M, et al. (2001) *Cancer Res*; 61(16): 5985-91.

Yuan ZQ, et al. (2000) *Oncogene*; 19(19): 2324-30.

Meier R, et al. (1997) *J Biol Chem*; 272(48): 30491-7.

Published Papers

el at., The effect of cyclic tensile force on the actin cytoskeleton organization and morphology of human periodontal ligament cells. In *Biochem Biophys Res Commun*. On 2018 Dec 2 by Wang YF, Zuo ZH et al.. PMID: 30401563, , (2018)

[PMID:30401563](#)

el at., Girdin/GIV is upregulated by cyclic tension, propagates mechanical signal transduction, and is required for the cellular proliferation and migration of MG-63 cells. In *Biochem Biophys Res Commun*. On 2015 Aug 21 by Hu JT, Li Y et al.. PMID:26163263, , (2015)

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el at., ApoA5 knockdown improves whole-body insulin sensitivity in high-fat-fed mice by reducing ectopic lipid content. In *J Lipid Res* on 2015 Mar by Joθ «o Paulo G Camporez , Shoichi Kanda et al.. PMID: 25548259, , (2015)

[PMID:25548259](#)

el at., Targeting steroid receptor coactivator 1 with antisense oligonucleotides increases insulin-stimulated skeletal muscle glucose uptake in chow-fed and high-fat-fed male rats. In *Am J Physiol Endocrinol Metab* on 2014 Nov 1 by Jennifer L Cantley, Daniel F Vatner, et al.. PMID:25159329, , (2014)

[PMID:25159329](#)

el at., Differential apoptosis gene expressions of rhabdomyosarcoma cells in response to enterovirus 71 infection. In *BMC Infect Dis* on 2012 Nov 28 by Shi W, Li X, et al.. PMID:23191987, , (2012)

[PMID:23191987](#)

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