

AKT1(Phospho-S124) Rabbit mAb

Catalog No: #13423

Package Size: #13423-1 50ul #13423-2 100ul

Description

Product Name	AKT1(Phospho-S124) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	JJ08-46
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser124 of human AKT1.
Conjugates	Unconjugated
Other Names	AKT 1 antibody AKT antibody AKT1 antibody AKT1_HUMAN antibody MGC99656 antibody PKB antibody PKB-ALPHA antibody PRKBA antibody Protein Kinase B Alpha antibody Protein kinase B antibody Proto-oncogene c-Akt antibody RAC Alpha antibody RAC antibody RAC-alpha serine/threonine-protein kinase antibody RAC-PK-alpha antibody
Accession No.	Swiss-Prot#:P31749
Calculated MW	Predicted band size: 56 kDa
SDS-PAGE MW	Observed band size: 56 kDa
Formulation	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

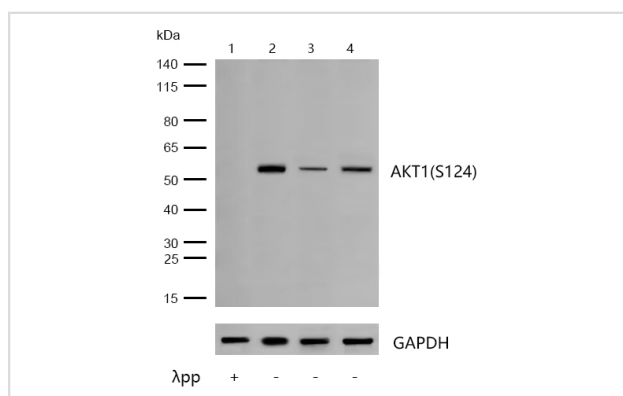
Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



All lanes : AKT1(Phospho-S124) Rabbit mAb at 1/1000 dilution

Lane 1 : MCF7 whole cell lysates treated with λ pp for 1 hour
Lane 2 : MCF7 whole cell lysates
Lane 3 : PC12 whole cell lysates
Lane 4 : NIH/3T3 whole cell lysates

Lysates/proteins at 20 μ g per lane.

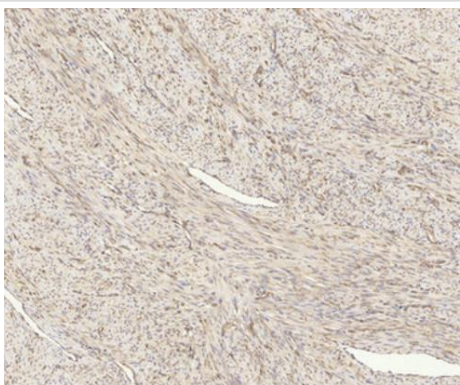
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

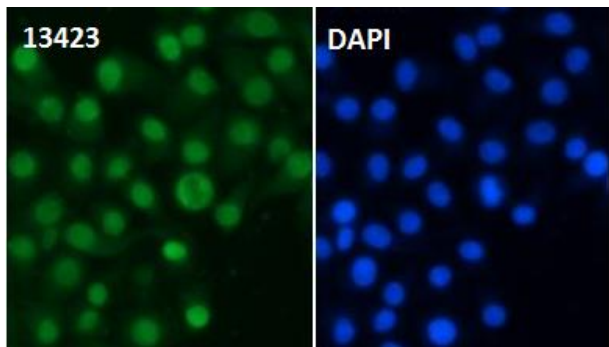
Predicted band size: 56 kDa

Observed band size: 56 kDa

Exposure time: 12 seconds



Formalin-fixed, paraffin-embedded human uterus cancer tissue stained for AKT1 (Phospho-S124) using 13423 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence AKT1 (Phospho-S124) antibody (13423)
ICC/IF staining of AKT1(Phospho-S124) in NIH/3T3 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 13423 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500. Nuclei were counterstained with DAPI.

Background

The serine/threonine kinase Akt family contains several members, including Akt1 (also designated PKB or RacPK), Akt2 (also designated PKB β or RacPK- β b) and Akt 3 (also designated PKB γ or thymoma viral proto-oncogene 3), which exhibit sequence homology with the protein kinase A and C families and are encoded by the c-Akt proto-oncogene. All members of the Akt family have a pleckstrin homology domain. Akt1 and Akt2 are activated by PDGF stimulation. Activation is dependent on PDGFR- β Tyr residues 740 and 751, which bind the subunit of the phosphatidylinositol 3-kinase (PI 3-kinase) complex. Activation of Akt1 by Insulin or Insulin-growth factor-1(IGF-1) results in phosphorylation of both Thr 308 and Ser 473. Phosphorylation of both residues is important to generate a high level of Akt1 activity. The phosphorylation of Thr 308 is not dependent on phosphorylation of Ser 473 in vivo. Thus, Akt proteins become phosphorylated and activated in Insulin/IGF-1-stimulated cells by an upstream kinase(s). The activation of Akt1 and Akt2 is inhibited by the PI kinase inhibitor wortmannin, suggesting that the protein signals downstream of the PI kinases.

References

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