AKT1 Antibody

Catalog No: #48488

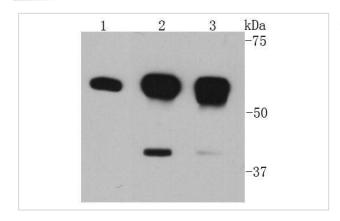
Package Size: #48488-1 50ul #48488-2 100ul Orders: order@signalwayantibody.com Support: tech@signal way antibody.com

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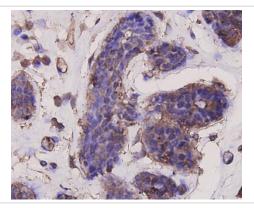
Product Name	AKT1 Antibody		
Host Species	Mouse		
Clonality	Monoclonal		
Clone No.	D9-9-C9		
Purification	ProA affinity purified		
Applications	WB, ICC, IHC, FC		
Species Reactivity	Hu, Ms		
Immunogen Description	peptide		
Other Names	AKT 1 antibody AKT antibody AKT1 antibody AKT1_HUMAN antibody MGC99656 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		
Uniprot	P31749		
GeneID	207;		
Calculated MW	56 kDa		
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.		
Storage	Store at -20°C		

Application Details

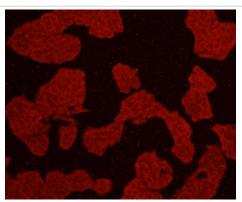
Images



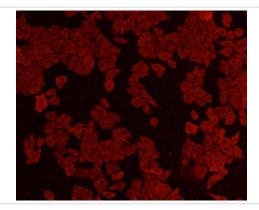
Western blot analysis of Akt1 on different cell lysates using anti-Akt1 antibody at 1/2000 dilution. Positive control: Lane Lane 2: MCF-7 Lane 3: Hela 1: HepG2



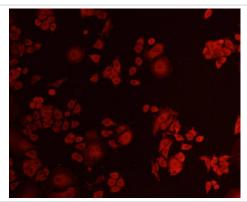
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Akt1 antibody. Counter stained with hematoxylin.



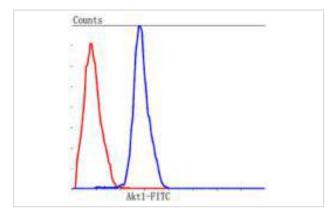
ICC staining Akt1 in Hela cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Akt1 in HepG2 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Akt1 in MCF-7 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Akt1 antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti rabbit IgG (FITC) was used as the secondary antibody.

Background

The serine-threonine protein kinase AKT1 is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mice lacking Akt1 display a 25% reduction in body mass, indicating that Akt1 is critical for transmitting growth-promoting signals, most likely via the igf1 receptor. Mice lacking Akt1 are also resistant to cancer: They experience considerable delay in tumor growth initiated by the large T antigen or the Neuoncogene.

References

Note: This product is for in vitro research use only