

产品名称: AKT1 Mouse Monoclonal Antibody
产品货号: AMM81658



产品概述 (Summary)

产品名称 (Production Name)	AKT1 Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,ICC,ELISA,FC
种属反应性 (Reactivity)	Human,Mouse,Monkey,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	Mouse IgG1
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Purified antibody in PBS with 0.05% sodium azide
纯化方式 (Purification)	Affinity Purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	AKT1
别名 (Alternative Names)	AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA
基因 ID (Gene ID)	207.0
蛋白 ID (SwissProt ID)	P31749.Purified recombinant fragment of human AKT1 (AA: 1-150) expressed in E. Coli.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
蛋白分子量 (Molecular Weight)	55.7kDa

研究背景 (Background)

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and

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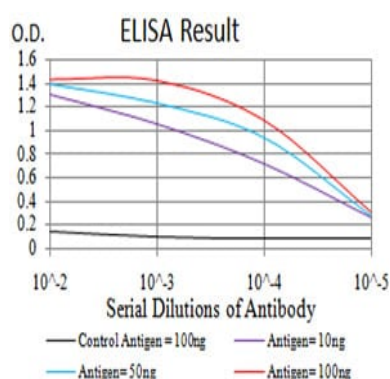


immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the 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. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

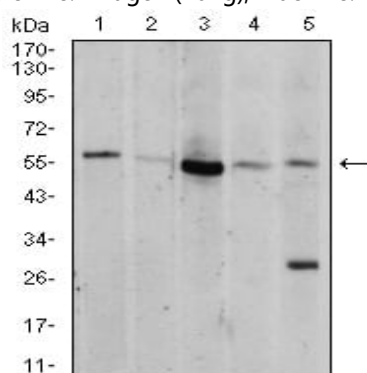
研究领域 (Research Area)

Apoptosis,TGF-beta signaling pathway,PI3K-Akt signaling pathway,mTOR signaling pathway,MAPK signaling pathway,Jak-STAT signaling pathway

图片 (Image Data)

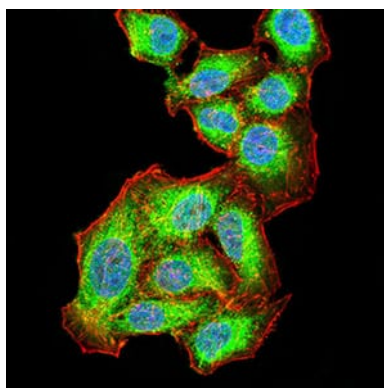


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

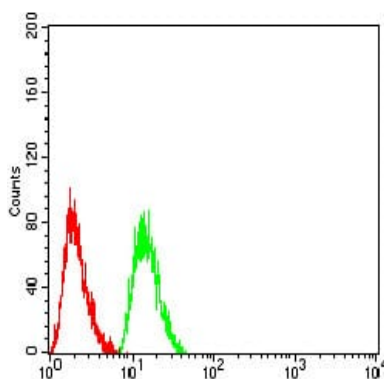


Western blot analysis using AKT1 mouse mAb against MCF-7 (1), NIH/3T3 (2), Hela (3), COS7 (4), and C6 (5) cell lysate.

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Immunofluorescence analysis of HepG2 cells using AKT1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Flow cytometric analysis of Hela cells using AKT1 mouse mAb (green) and negative control (red).

注意事项 (Note)

For research use only .