

产品名称: AKT Rabbit Monoclonal Antibody
产品货号: AMRe85267



产品概述 (Summary)

产品名称 (Production Name)	AKT Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
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 TBS with 0.05% sodium azide, 0.05% protective protein and 50% glycerol.
纯化方式 (Purification)	Affinity Purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	AKT
别名 (Alternative Names)	MPPH; PKBG; MPPH2; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma
基因 ID (Gene ID)	10000.0
蛋白 ID (SwissProt ID)	Q9Y243.A synthetic peptide of human AKT1/2/3

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:1000, ICC 1:50-1:200
蛋白分子量 (Molecular Weight)	Calculated MW: 56 kDa; Observed MW: 56 kDa

研究背景 (Background)

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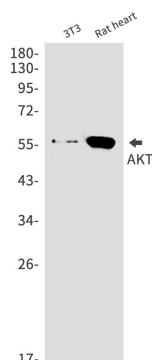


AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. Required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase-dependent apoptosis.

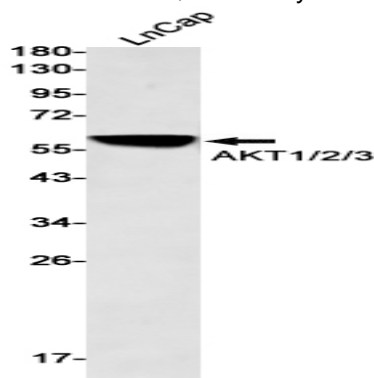
研究领域 (Research Area)

PI3K-Akt signaling pathway, MAPK signaling pathway, Jak-STAT signaling pathway

图片 (Image Data)

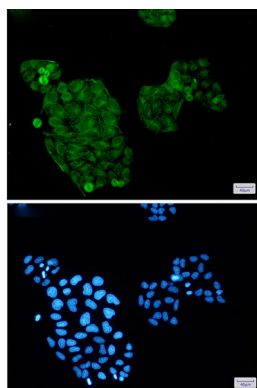


Western blot analysis of AKT in 3T3, rat heart lysates using AKT antibody.



Western blot analysis of AKT1/2/3 in LnCap lysates using AKT antibody.

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Immunocytochemistry analysis of AKT1/2/3(green) in Hela using AKT antibody, and DAPI(blue)

注意事项 (Note)

For research use only .