

Product datasheet for **TA383697M**

AKT3 Rabbit Monoclonal Antibody [Clone ID: R08-8F1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R08-8F1
Applications:	IF, WB
Recommended Dilution:	WB: 1/1000 ICC/IF: 1/200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human AKT1/2/3
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 56 kDa; Observed MW: 56 kDa
Gene Name:	AKT serine/threonine kinase 3
Database Link:	Entrez Gene 10000 Human Q9Y243

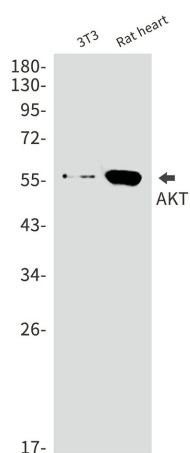
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Background:

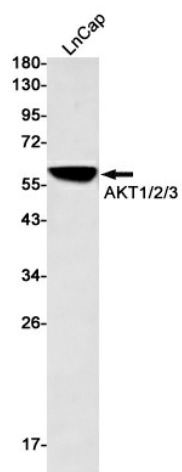
Swiss-Prot Acc.Q9Y243.AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation 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.

Synonyms:

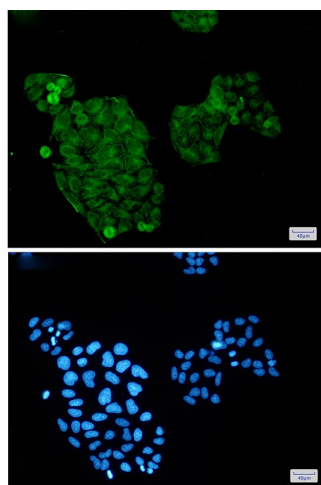
DKFZp434N0250; OTTHUMP00000037911; OTTHUMP00000037912; PKB-GAMMA; PKBG; PRKBG; RAC-gamma; RAC-PK-gamma; STK-2

Product images:


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.



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