

Anti-AKT Rabbit pAb

Purified Rabbit Polyclonal Antibody

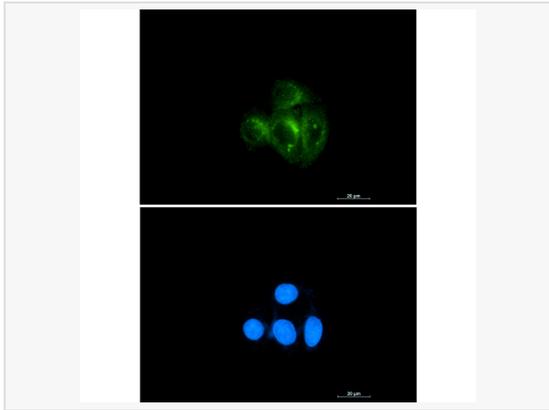
Catalog # P011288

Product Information

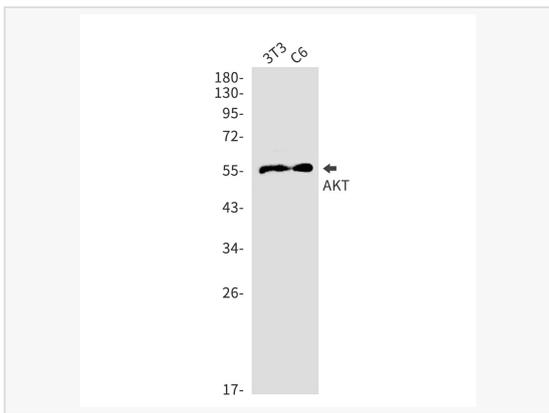
Application	WB, IHC-F/IF (Tissue-F), IHC-P/IF (Tissue-P), ICC/IF (Cell), FC, IP, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:1,000; IHC-P 1:50~1:100; IF 1:50~1:200; IP 1:20; FC 1:50~1:100
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human AKT3
Format	Buffer System: 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA Purification: Affinity Purified.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-AKT antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

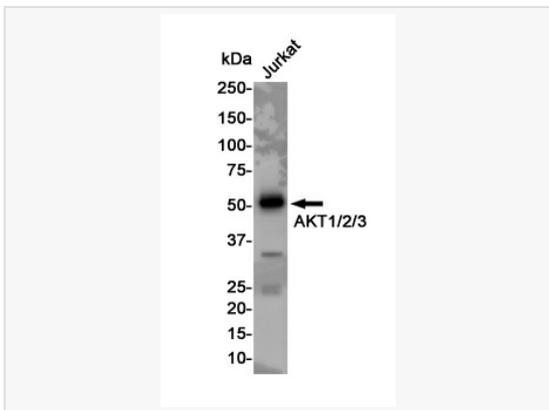
Synonyms	MPPH, PKBG, MPPH2, PRKBG, STK-2, PKB-GAMMA, RAC-gamma, RAC-PK-gamma.
Calculated MW	Calculated MW: 56 kDa; Observed MW: 56 kDa
Uniprot ID	Q9Y243
Gene ID	10000
Background	AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate 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.



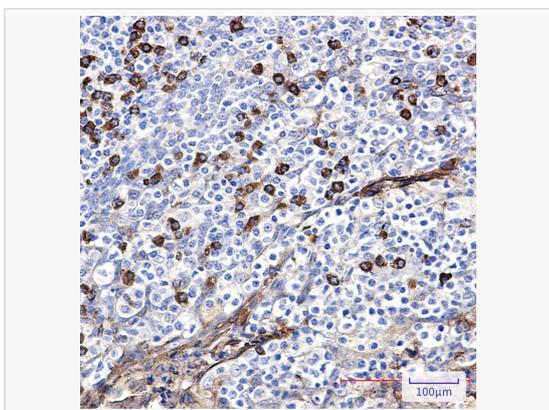
Immunocytochemistry analysis of AKT (green) in A549 using AKT antibody and DAPI (blue) .



Western blot analysis of AKT in 3T3, C6 lysates using AKT antibody.



Western blot analysis of Akt (pan) in Jurkat lysates using Akt antibody



Immunohistochemistry analysis of paraffin-embedded Human tonsil using AKT1/2/3 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.