

Product Name: AKT Rabbit Monoclonal Antibody

Catalog #: AMRe85267

For research use only.

Summary

Description Recombinant rabbit monoclonal antibody

Host Rabbit
Application WB,ICC

Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

Clonality Monoclonal
Form Liquid

Concentration 0.62mg/ml. The concentration of this product may be batch-dependent. **Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in TBS with 0.05% sodium azide,0.05% protective protein and 50% glycerol.

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:1000,ICC 1:50-1:200

Molecular Weight Calculated MW: 56 kDa; Observed MW: 56 kDa

Antigen Information

Gene Name AKT

Alternative Names MPPH; PKBG; MPPH2; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma

 Gene ID
 10000.0

 SwissProt ID
 Q9Y243

Immunogen A synthetic peptide of human AKT1/2/3

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

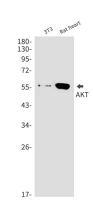


reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation 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.

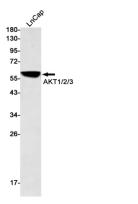
Research Area

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

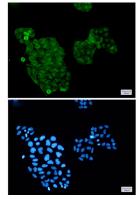
Image Data



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.



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

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838