

AKT Rabbit mAb

Catalog No: #52129

Package Size: #52129-1 50ul #52129-2 100ul

Orders: order@signalwayantibody.com

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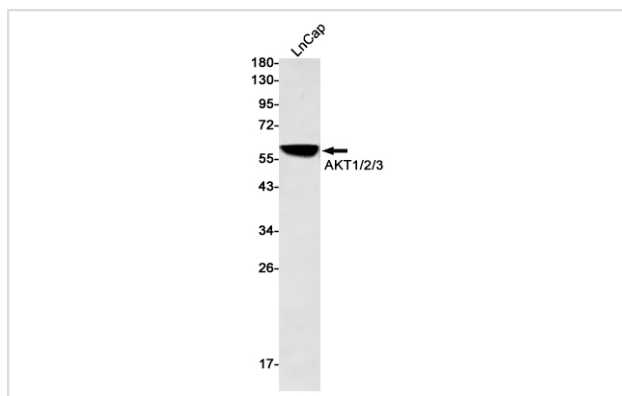
Description

| | |
|-----------------------|--|
| Product Name | AKT Rabbit mAb |
| Host Species | Recombinant Rabbit |
| Clonality | Monoclonal antibody |
| Clone No. | S08-8F1 |
| Isotype | Rabbit IgG |
| Purification | Affinity Purified |
| Applications | WB IF |
| Species Reactivity | Human,Mouse,Rat |
| Immunogen Description | A synthetic peptide of human AKT1/2/3 |
| Conjugates | Unconjugated |
| Modification | Unmodification |
| Other Names | MPPH; PKBG; MPPH2; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma |
| Accession No. | Swiss-Prot:Q9Y243GeneID:10000 |
| Uniprot | Q9Y243 |
| GeneID | 10000 |
| Calculated MW | Calculated MW: 56 kDa; Observed MW: 56 kDa |
| Concentration | 0.3 mg/ml |
| Formulation | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

Application Details

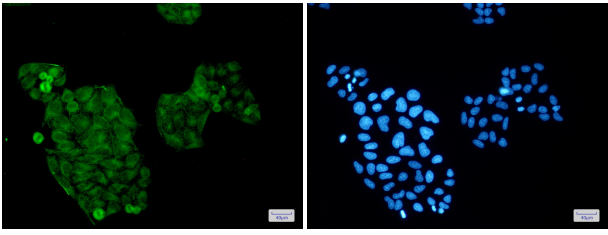
WB: 1/1000; ICC/IF: 1/200

Images



Western blot detection of AKT1/2/3 in LnCap cell lysates using AKT Rabbit mAb(1:500 diluted). Predicted band size:56kDa.Observed band size:56kDa.

Immunofluorescence of AKT1/2/3(green) in HeLa cells using AKT Rabbit mAb at dilution 1/50, and DAPI(blue)



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.

Note: This product is for in vitro research use only