

**AKT3 Antibody (aa119-136)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS13635****Specification**

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**AKT3 Antibody (aa119-136) - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">O9Y243</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

**AKT3 Antibody (aa119-136) - Additional Information****Gene ID** 10000**Other Names**

RAC-gamma serine/threonine-protein kinase, 2.7.11.1, Protein kinase Akt-3, Protein kinase B gamma, PKB gamma, RAC-PK-gamma, STK-2, AKT3, PKBG

**Target/Specificity**

A synthetic peptide corresponding to amino acid residues 119-136 of human Akt3. This sequence is identical in human, mouse and rat.

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

AKT3 Antibody (aa119-136) is for research use only and not for use in diagnostic or therapeutic procedures.

**AKT3 Antibody (aa119-136) - Protein Information****Name** AKT3**Synonyms** PKBG**Function**

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.

#### **Cellular Location**

Nucleus. Cytoplasm. Membrane; Peripheral membrane protein Note=Membrane-associated after cell stimulation leading to its translocation

#### **Tissue Location**

In adult tissues, it is highly expressed in brain, lung and kidney, but weakly in heart, testis and liver. In fetal tissues, it is highly expressed in heart, liver and brain and not at all in kidney

#### **Volume**

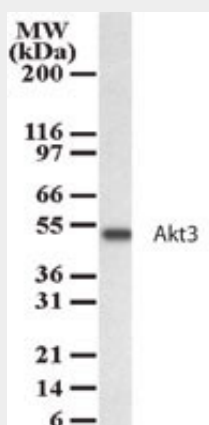
50 µl

### **AKT3 Antibody (aa119-136) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **AKT3 Antibody (aa119-136) - Images**



Western blot analysis for AKT3 using antibody at 2 ug/ml dilution against 15 ug/lane of HeLa...

### **AKT3 Antibody (aa119-136) - Background**

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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.

#### **AKT3 Antibody (aa119-136) - References**

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Masure S.,et al.Eur. J. Biochem. 265:353-360(1999).  
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Wiemann S.,et al.Genome Res. 11:422-435(2001).