

AKT3 Antibody (aa119-136, clone 66C1247.1)
Mouse Monoclonal Antibody
Catalog # ALS11654**Specification**

AKT3 Antibody (aa119-136, clone 66C1247.1) - Product Information

Application	WB, IHC-P
Primary Accession	O9Y243
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Pig, Chicken, Horse, Bovine, Dog
Host	Mouse
Clonality	Monoclonal
Calculated MW	56kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

AKT3 Antibody (aa119-136, clone 66C1247.1) - 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 (CSPTSQIDNIGEEEMDAS) of human Akt3, GenBank no. gi|4574744|gb|AAD24196.1|AF135794_1. This sequence is identical in human, mouse, rat, cow, dog, and chicken.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

AKT3 Antibody (aa119-136, clone 66C1247.1) is for research use only and not for use in diagnostic or therapeutic procedures.

AKT3 Antibody (aa119-136, clone 66C1247.1) - 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

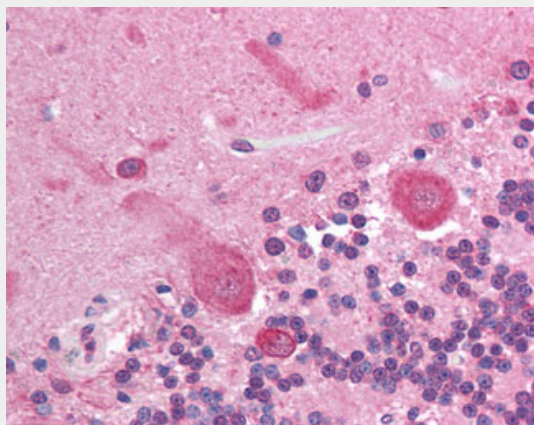
In adult tissues, it is highly expressed in brain, lung and kidney, but weakly in heart, testis and liver. In fetal tissues, it is highly expressed in heart, liver and brain and not at all in kidney

AKT3 Antibody (aa119-136, clone 66C1247.1) - 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, clone 66C1247.1) - Images



Anti-AKT3 antibody IHC of human brain, cerebellum.

AKT3 Antibody (aa119-136, clone 66C1247.1) - Background

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AKT3 Antibody (aa119-136, clone 66C1247.1) - References

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Nakatani K.,et al.Biochem. Biophys. Res. Commun. 257:906-910(1999).
Masure S.,et al.Eur. J. Biochem. 265:353-360(1999).
Li X.,et al.Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases.
Wiemann S.,et al.Genome Res. 11:422-435(2001).