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Datasheet for ABIN7167032  
**anti-AKT3 antibody (AA 1-164)**

1 Image

### Overview

Quantity:	100 µg
Target:	AKT3
Binding Specificity:	AA 1-164
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKT3 antibody is un-conjugated
Application:	ELISA, Immunoprecipitation (IP)

### Product Details

Immunogen:	Recombinant Human RAC-gamma serine/threonine-protein kinase protein (1-164AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

### Target Details

Target:	AKT3
Alternative Name:	AKT3 ( <a href="#">AKT3 Products</a> )
Background:	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,

## Target Details

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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.

Aliases: Akt3 antibody, AKT3 kinase antibody, AKT3\_HUMAN antibody, DKFZp434N0250 antibody, MPPH antibody, PKB gamma antibody, PKBG antibody, PRKBG antibody, Protein kinase Akt-3 antibody, Protein Kinase AKT3 antibody, Protein kinase B gamma antibody, RAC gamma antibody, RAC gamma serine/threonine protein kinase antibody, RAC-gamma serine/threonine-protein kinase antibody, RAC-PK-gamma antibody, RACPK Gamma antibody, Serine threonine protein kinase Akt 3 antibody, Serine threonine protein kinase Akt3 antibody, STK 2 antibody, STK-2 antibody, STK2 antibody, V akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma) antibody, V akt murine thymoma viral oncogene homolog 3 antibody, V akt murine thymoma viral oncogene homolog 3 protein kinase B gamma antibody

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UniProt: [Q9Y243](#)

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Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [TLR Signaling](#), [Hepatitis C](#), [VEGF Signaling](#)

## Application Details

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Application Notes: Recommended dilution: IP:1:200-1:2000,

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

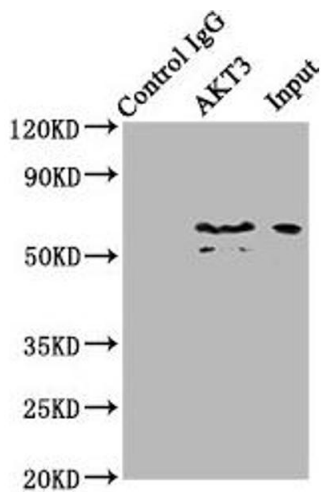
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## Handling

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



### Western Blotting

**Image 1.** Immunoprecipitating AKT3 in mouse brain whole cell lysate Lane 1: Rabbit control IgG (1  $\mu$ g) instead of ABIN7167032 in mouse brain whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000) Lane 2: ABIN7167032 (6  $\mu$ g) + Mouse brain whole cell lysate (500  $\mu$ g) Lane 3: Mouse brain whole cell lysate (10  $\mu$ g)