# abcam

## Product datasheet

## Anti-AKT3 antibody [66C1247.1] ab118509

## 1 Image

#### Overview

Product name Anti-AKT3 antibody [66C1247.1]

**Description** Mouse monoclonal [66C1247.1] to AKT3

Host species Mouse

Tested applications Suitable for: ⊮C-P

Species reactivity Reacts with: Human

Predicted to work with: Mouse, Rat, Chicken, Cow, Dog

**Immunogen** Synthetic peptide corresponding to Human AKT3 aa 100-200.

Database link: Q9Y243

Run BLAST with
Run BLAST with

Positive control Human Brain Cerebellum tisse

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

## **Properties**

Form Liquid

**Storage instructions** Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Store undiluted.

**Storage buffer** Preservative: 0.05% Sodium azide

Constituents: 99% PBS, 0.05% BSA

**Purity** Protein G purified

Clonality Monoclonal
Clone number 66C1247.1

**Isotype** IgG1

**Annlications** 

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#### The Abpromise guarantee

Our Abpromise guarantee covers the use of ab118509 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

#### **Target**

Function	IGF-1 leads to the activation of AKT3, which may play a role in regulating cell survival. Capable of
	phosphorylating several known proteins. Truncated isoform 2/PKB gamma 1 without the second
	serine phosphorylation site could still be stimulated but to a lesser extent.

Tissue specificity 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. Sequence similarities Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC subfamily.

Contains 1 AGC-kinase C-terminal domain.

Contains 1 PH domain.

Contains 1 protein kinase domain.

**Domain** Binding of the PH domain to the phosphatidylinositol 3-kinase alpha (Pl(3)K) results in its

targeting to the plasma membrane.

Post-translational Phosphorylation on Thr-305 and Ser-472 is required for full activity (By similarity). Phosphorylated modifications

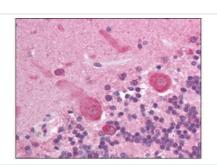
upon DNA damage, probably by ATM or ATR.

Ubiquitinated. When fully phosphorylated and translocated into the nucleus, undergoes 'Lys-48'-

polyubiquitination catalyzed by TTC3, leading to its degradation by the proteasome.

**Cellular localization** Cytoplasm. Membrane. Membrane-associated after cell stimulation leading to its translocation.

## **Images**



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-AKT3 antibody [66C1247.1] (ab118509)

ab118509 at 5 µg/ml staining AKT3 in Formalin-Fixed, Paraffin-Embedded Human Brain, Cerebellum tissue, followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.

Please note: All products are "FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <a href="https://www.abcam.com/abpromise">https://www.abcam.com/abpromise</a> or contact our technical team.

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