abcam

Product datasheet

Anti-AKT1 + AKT2 + AKT3 antibody ab126811

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Overview

Product name Anti-AKT1 + AKT2 + AKT3 antibody

Description Rabbit polyclonal to AKT1 + AKT2 + AKT3

Host species Rabbit

Specificity Recognizes AKT1, AKT2, and AKT3 proteins

Tested applications Suitable for: WB

Species reactivity Reacts with: Mouse, Human

Immunogen Synthetic peptide corresponding to Human AKT1 + AKT2 + AKT3 aa 313-317.

Sequence:

PEYLA

Run BLAST with
Run BLAST with

Positive control 3T6 cell lysate and recombinant Human AKT1, AKT2, and AKT3

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. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

Storage buffer pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine)

Purity Protein A purified

Clonality Polyclonal

Isotype IgG

1

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab126811 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
WB	**** <u>(1)</u>	1/1000. Predicted molecular weight: 56 kDa.

Target

IGF-1 leads to the activation of AK I3, 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 similaritiesBelongs 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.

DomainBinding of the PH domain to the phosphatidylinositol 3-kinase alpha (PI(3)K) results in its

targeting to the plasma membrane.

Post-translational modifications

 $Phosphory lation on Thr-305 \ and \ Ser-472 \ is \ required \ for \ full \ activity \ (By \ similarity). \ Phosphory lated$

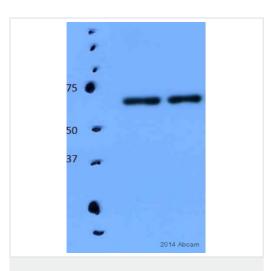
upon DNA damage, probably by ATM or ATR.

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



Western blot - Anti-AKT1 + AKT2 + AKT3 antibody (ab126811)

This image is courtesy of an anonymous Abreview

All lanes: Anti-AKT1 + AKT2 + AKT3 antibody (ab126811) at 1/5000 dilution

All lanes: Rat vascular smooth muscle cell lysate

Lysates/proteins at 100000 cells per lane.

Secondary

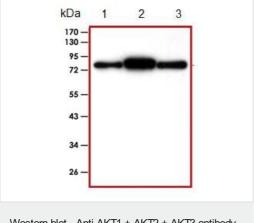
All lanes : HRP-conjugated donkey anti-rabbit lgG polyclonal at 1/2000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 56 kDa Observed band size: 60 kDa

Exposure time: 10 seconds



1/1000 dilution

All lanes: Anti-AKT1 + AKT2 + AKT3 antibody (ab126811) at

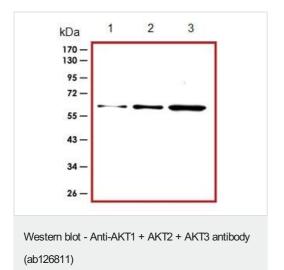
Lane 1: Recombinant Human AKT1 Lane 2: Recombinant Human AKT2

Lane 3: Recombinant Human AKT3

Lysates/proteins at 0.015 µg per lane.

Predicted band size: 56 kDa

Western blot - Anti-AKT1 + AKT2 + AKT3 antibody (ab126811)



All lanes: Anti-AKT1 + AKT2 + AKT3 antibody (ab126811) at

1/1000 dilution

Lane 1: 3T6 cell lysate at 3 µg Lane 2: 3T6 cell lysate at 10 µg Lane 3: 3T6 cell lysate at 30 µg

Predicted band size: 56 kDa

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

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