Akt monoclonal antibody (5C10)

This antibody is covered by our Worry-Free Guarantee.

Ordering Information

Order Online »

ALX-804-553-C100

100µg

Manuals, SDS & CofA

View Online »

Handling & Storage

Use/Stability Stable at -80°C up to 1 year, at 4°C up to 3 months.

Handling Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and freeze in liquid

nitrogen.

Long Term Storage -20°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name Protein kinase B, PKB

Application ELISA, WB

Clone 5C10

Formulation Lyophilized from 1ml of 2x PBS containing 0.09% sodium

azide, PEG, and sucrose.

Host Mouse

Immunogen Synthetic peptide corresponding to C-terminal human Akt

(protein kinase B; PKB) conjugated to KLH.

lsotype lgG1

Positive Control Included. (Prod. No. 840-030-1)

Purity Detail Thiophilic adsorption and size exclusion chromatography

purified.

Recommendation Dilutions/ConditionsWestern Blot (0.5µg/ml for HRPO/ECL detection;

recommended blocking buffer CPPT: 10mM TRIS-HCl, pH 7.4, 0.5% (w/v) casein, 1% (w/v) PEG 4,000, 1% (w/v) polyvinylpyrrolidone, 0.1% (v/v) Tween 20, 150mM sodium chloride)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be

determined individually for each application.

Reconstitution

Reconstitute with 1ml water (15 minutes at room temperature).

Species Reactivity

Dog, Human, Mouse, Rat

Specificity

Recognizes a C-terminal epitope (aa 466-480) of phosphorylated and non-phosphorylated Akt isoforms (see Technical Note below).

Technical Info / Product Notes

Technical Note: There are three mammalian isoforms of Akt: Akt1 (PKBa), Akt2 (PKBb), and Akt3 (PKBg). Akt1 shares 81% and 83% amino acid identity with Akt2 and Akt3, respectively. Although the three isoforms show broad tissue distribution, Akt1 is the most ubiquitously expressed. Akt2 is expressed at a lower level than Akt1 except in insulin-responsive tissues where it predominates. In particular, Akt2 is more abundant and more highly activated than Akt1 in adipocytes. Akt3 is expressed at the lowest level except in testes and brain. The C-terminal sequence of the three isoforms are shown below. Note that the phosphorylation site slightly differs between the three isoforms. Thus the phosphorylation site Ser⁴⁷³ of Akt1 corresponds to Ser⁴⁷⁴ in Akt2 and Ser⁴⁷² in Akt3 respectively.

Akt1: V⁴⁶¹DSERRPHFPQFS⁴⁷³YSASSTA⁴⁸⁰ UniProt ID P31749

Akt2: L⁴⁶¹LELDQRTHFPQFS⁴⁷⁴YSASIRE⁴⁸¹ UniProt ID

Akt3: D⁴⁶¹NERRPHFPQFS⁴⁷²YSASGRE⁴⁷⁹ UniProt ID Q9Y243

Replacement for ADI-905-661

P31749 (Akt1), P31751 (Akt2), Q9Y243 (Akt3)

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Enzo

UniProt ID