

AbboMax, Inc

Innovation at Work

Rabbit anti AKT1/PKB α Antibody

Synonym:

ANTIGEN PREPARATION

A synthetic peptide corresponding to the close to C-term of human AKT1 protein.

BACKGROUND

Akt [also known as PKB (Protein kinase B) is a family of serine/threonine kinases that plays an important role in signal transduction. There are three known isoforms of Akt in mammalian cells [Akt1 (α), Akt2 (β) and Akt3 (γ); Akt2 and Akt3 have 81% and 83% homology in amino acid sequences with Akt1, respectively. Numerous studies have revealed that the expression pattern of Akt1 and Akt2 is ubiquitous, whereas Akt3 is expressed predominantly in brain, heart, and kidney. Akt is activated by insulin and growth and survival factors. Akt has been referred to as an oncogene because it has increased activity in a number of tumors.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification.

SPECIFICITY

This antibody only recognizes ~60 kDa of human AKT1, not AKT1 or AKT2. It also reacts with mouse and rat AKT3 protein. The other species are not tested.

APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 μ g/ml
ELISA	0.01-0.1 μ g/ml
Immunoprecipitation	2-5 μ g/ml
IHC	0.5-2 μ g/ml
Flow cytometry	Not tested

DATA ATTACHMENTS



Western Blot: The Cell lysate derived from HELA cell line was immunoblotted by Rabbit anti AKT1, (Cat#600-200) at 1:500 (lane 1), Lane 2: BSA as a negative control.

Order Information

Description: Rabbit anti AKT1
Catalogue#: 600-200
Lot#: See the label
Size: 100 μ g/200 μ l
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu, Rt, Ms

FORMULATION

This affinity purified antibody is supplied in sterile phosphate-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C . The antibodies can be stored at 2°C - 8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

MOLECULAR WEIGHT:	60 kDa
POSITIVE CONTROL:	Hela lysate
CELLULAR LOCATION:	Cytoplasmic

Optimal dilutions should be determined by researchers for the specific applications.

REFERENCES

Kaname Nakatani, et al. Up-regulation of Akt3 in Estrogen Receptor-deficient Breast Cancers and Androgen-independent Prostate Cancer Lines. THE JOURNAL OF BIOLOGICAL CHEMISTRY. Vol. 274, No. 31, Issue of July 30, pp. 21528-21532, 1999.

FOR RESEARCH USE ONLY.

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