

AbboMax, Inc

Innovation at Work

Rabbit anti Phospho- AKT1/PKB α (pSER⁴⁷³) Antibody

ANTIGEN PREPARATION

A synthetic peptide containing the phosphorylated Ser473 motif of human AKT1.

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)]; Akt is activated by insulin and growth and survival factors. Akt1 is phosphorylated within the activation loop at threonine 308 and the C-terminus at serine 473 (S473). Additionally, Akt has been referred to as an oncogene because it has increased activity in a number of tumors.

PURIFICATION

Site-directed adsorption and epitope affinity purification. This affinity purified antibody is supplied in sterile Tris-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.

SPECIFICITY

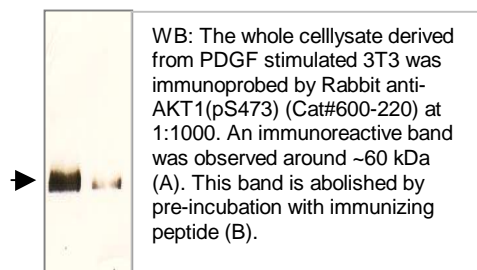
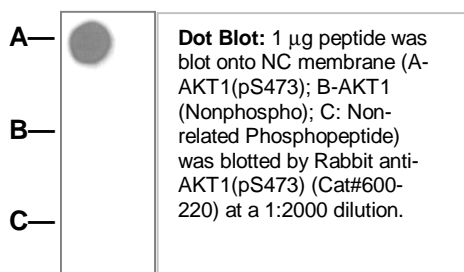
The motif corresponding to the major autophosphorylation site of the human AKT1 kinase protein. This antibody does not cross react to the non-phosphorylated AKT1 or with other unrelated phosphorylated serine. Ser473 corresponds to QFSYS in human, rat, mouse, chicken and canis of AKT/PKB proteins

APPLICATIONS AND SUGGESTED WORKING DILUTIONS

Western Blot	0.1-0.2 $\mu\text{g/ml}$
ELISA	0.01-0.1 $\mu\text{g/ml}$
Immunoprecipitation	2-5 $\mu\text{g/ml}$
IHC	1-2 $\mu\text{g/ml}$
Flow cytometry	N/A

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

MOLECULAR WEIGHT: ~60 kDa
POSITIVE CONTROL: PDGF-Treated 3T3 cell lysate.
CELLULAR LOCATION: cell cytoplasmic



Order Information

Description: Rabbit anti AKT1(pS473)
Catalogue#: 600-220
Lot#: See the label
Size: 100 μg /200 μl
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu/Rt/Ms

FOR RESEARCH USE ONLY.