

Akt Ab

Cat.#: AF4718 Concn.: 1mg/ml Mol.Wt.: 60kDa Size: 50ul,100ul,200ul Source: Rabbit Clonality: Polyclonal

Application: WB 1:500-1:2000

Reactivity: Human, Mouse, Rat

Purification: The antiserum was purified by peptide affinity

chromatography using SulfoLink™ Coupling Resin (Thermo

Fisher Scientific).

Specificity: Akt Ab detects endogenous levels of Akt.

Immunogen: A synthesized peptide derived from human Akt.

Uniprot: P31749

Subcellular Location: Cytoplasm. Nucleus. Cell membrane. Nucleus after

activation by integrin-linked protein kinase 1 (ILK1). Nuclear

translocation is enhanced by interaction with TCL1A.

activation and the activated form translocates to the

Phosphorylation on Tyr-176 by TNK2 results in its localization to the cell membrane where it is targeted for further phosphorylations on Thr-308 and Ser-473 leading to its

nucleus.

Tissue Specificity: Expressed in prostate cancer and levels increase from the

normal to the malignant state (at protein level). Expressed in all human cell types so far analyzed. The Tyr-176 phosphorylated form shows a significant increase in

expression in breast cancers during the progressive stages i.e. normal to hyperplasia (ADH), ductal carcinoma in situ (DCIS), invasive ductal carcinoma (IDC) and lymph node

metastatic (LNMM) stages.

Similarity: Binding of the PH domain to phosphatidylinositol

3,4,5-trisphosphate (PI(3,4,5)P3) following

phosphatidylinositol 3-kinase alpha (PIK3CA) activity results in its targeting to the plasma membrane. The PH domain mediates interaction with TNK2 and Tyr-176 is also essential for this interaction. The AGC-kinase C-terminal mediates interaction with THEM4. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC

subfamily.

Storage Condition and

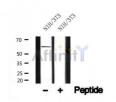
Buffer:

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20

°C.Stable for 12 months from date of receipt.



Affinity Biosciences website:www.affbiotech.com order:order@affbiotech.com



Western blot analysis of Akt in lysates of NIH/3T3, using Akt Ab(AF4718).

<code>IMPORTANT:</code> For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween020 at 4° C with gentle shaking, overnight.

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