

## AKT polyclonal antibody

Catalog: BCP00194

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

AKT, also known as protein kinase B (PKB), is a 57 kDa serine/threonine protein kinase. There are three mammalian isoforms of Akt: AKT1 (PKB alpha), AKT2 (PKB beta) and AKT3 (PKB gamma) with AKT2 and AKT3 being approximately 82% identical with the AKT1 isoform. Each isoform has a pleckstrin homology (PH) domain, a kinase domain and a carboxy terminal regulatory domain. AKT was originally cloned from the retrovirus AKT8, and is a key regulator of many signal transduction pathways. Its tight control over cell proliferation and cell viability are manifold; overexpression or inappropriate activation of AKT has been seen in many types of cancer.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 60 kDa

### Swiss-Prot:

P31749/P31751/Q9Y243

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

IP: 1:50~1:200

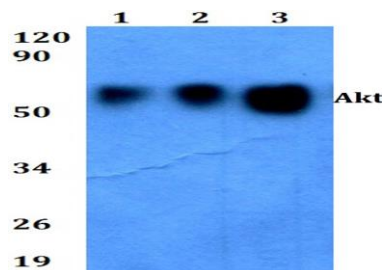
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

AKT polyclonal antibody detects endogenous levels of total AKT protein.

### DATA:



Western blot (WB) analysis of Akt polyclonal antibody at 1:500 dilution

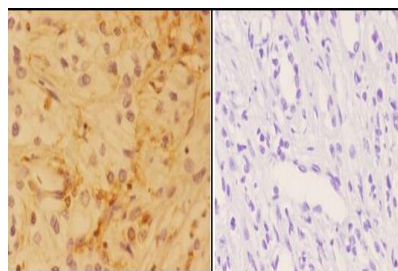
Lane1:L02 whole cell lysate(40ug)

Lane2:A549 whole cell lysate(40ug)

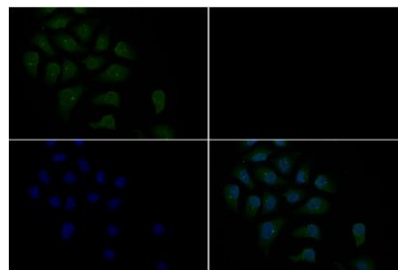
Lane3:HEK293T whole cell lysate(40ug)

Lane4:C6 whole cell lysate(40ug)

Lane5:BV2 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of AKT pAb in paraffin-embedded human kidney carcinoma tissue at 1:50, showing cytoplasm and nucleus staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



Immunofluorescence analysis of A549 cells using Akt polyclonal antibody at dilution of 1:200.

Immunoprecipitation of A549 cell lysates using AKT pAb (Sepharose Bead Conjugate)#BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 4). Lane 1 is 30% input. The western blot was probed using AKT pAb.

### Note:

For research use only, not for use in diagnostic procedure.

