

## AKT (C-terminus) monoclonal antibody

Catalog: MB0052

Host: Mouse

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:

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

### Molecular Weight:

Predicted band size: 60KDa

Observed band size: 60KDa

### Swiss-Prot:

P31749/P31751/Q9Y243

### Purification&Purity:

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

### Applications:

WB: 1:1000

IP: 1:50~1:200

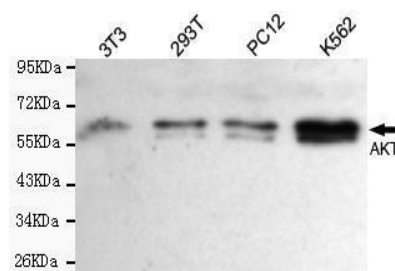
### Storage&Stability:

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

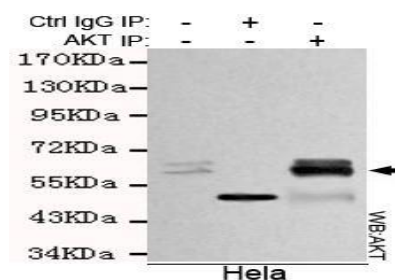
### Specificity:

This antibody detects endogenous levels of total AKT and does not cross-react with related proteins.

### DATA:



Western blot detection of AKT antibody in 3T3, 293T, PC12 and K562 cell lysates using AKT antibody (1:1000 diluted).



Immunoprecipitation analysis of HeLa cell lysates using AKT antibody.

### Note:

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

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