

## AKT2 monoclonal antibody

Catalog: MB21294

Host: Mouse

Reactivity: Human,Rat,Monkey

### BackGround:

Akt2 (also designated protein kinase B beta or v-akt murine thymoma viral oncogene homolog 2), with 481-amino acid protein (about 53kDa), belongs to the AKT serine/threonine protein kinase family, which also includes Akt1 and Akt3. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. Among the members of AKT family, Akt2 is associated with the development of human cancers. Akt2 inhibits cisplatin-induced JNK/p38 and Bax activation through phosphorylation of ASK1 and thus, plays an important role in chemoresistance. Further, Akt2 plays a specific role in muscle differentiation.

### Product:

Purified antibody in PBS with 0.05% sodium azide.

### Molecular Weight:

60kDa

### Swiss-Prot:

P31751

### 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:1/500 - 1/2000 IHC:1/200 - 1/1000 IF:1/200 - 1/1000

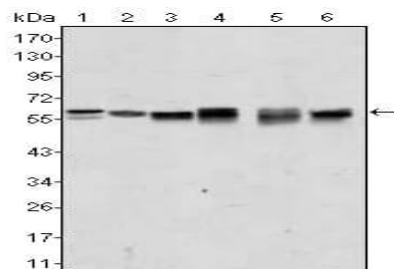
### Storage&Stability:

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

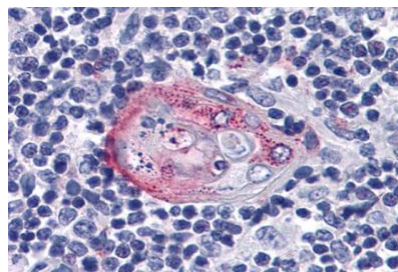
### Isotype:

Mouse IgG2b

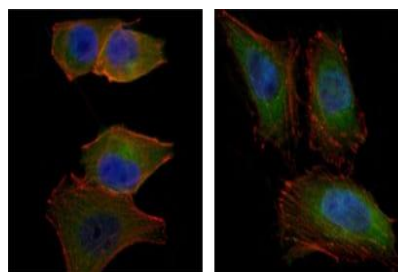
### DATA:



Western blot analysis using AKT2 mouse mAb against A431 (1), Jurkat (2), HEK293 (3), A549 (4), MCF-7 (5) and PC-12 (6) cell lysate.



Immunohistochemical analysis of paraffin-embedded human Thymus tissues using anti-AKT2 mAb



Immunofluorescence analysis of PANC-1 (left) and HeLa (right) cells using AKT2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

### Note:

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

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