

# Monoclonal Antibody to Akt2

Cat. #: Mab-606067

## Description:

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.

## Immunogen/Specificity:

Ni-NTA purified truncated recombinant Akt2 expressed in E. Coli strain BL21 (DE3)

## Applications :

Western Blot: 1: 100- 1: 500

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.\*

## Formulation

Crude ascites.

## Reference:

1. Zeng-qiang Yuan , Richard I. Feldman, Gene E. Sussman

J. Biol. Chem., Jun 2003; 278: 23432-23440

2. Satoshi Kaneko, Richard I. Feldman, Lu Yu

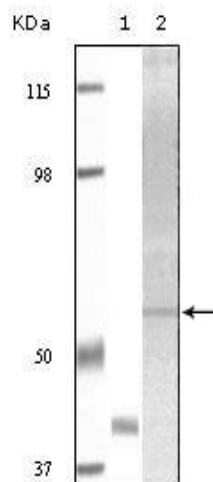
J. Biol. Chem., Jun 2002; 277: 23230-23235

Clone Number: 1G8C12

Isotype: IgG2b

Species: Human

Storage and Stability: stored at -20 C



**Figure 1:** Western blot analysis using anti-Human Akt2 monoclonal antibody against truncated Akt2 recombinant protein(1) and A431 cell lysate(2).