

Monoclonal Antibody to Akt3

Cat. #: Mab-606061

Description:

Akt3 (also designated protein kinase B gamma or v-akt murine thymoma viral oncogene homolog 3), with 479-amino acid protein (about 53kDa), belongs to the AKT serine/threonine protein kinase family, which also includes Akt1 and Akt2. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. Akt3 is not required for the maintenance of normal carbohydrate metabolism but is essential for the attainment of normal organ size. Identifying Akt3 as a selective target in melanoma cells also provides new therapeutic opportunities for patients in the advanced stages of this disease.

Immunogen/Specificity:

Ni-NTA purified truncated recombinant Akt3 expressed in E. Coli strain BL21 (DE3)

Applications :

Western Blot: 1: 500- 1: 2000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

Formulation

Crude ascites.

Reference:

1. Rachael M. Easton, Han Cho, Kristin Roovers
Mol. Cell. Biol., Mar 2005; 25: 1869 - 1878
2. Jill M. Stahl, Arati Sharma, Mitchell Cheung
Cancer Res., Oct 2004; 64: 7002 - 7010

Clone Number: 3B12F3F10, 2D2B11B11, 2D2B11H5

Isotype:

Species: Human

Storage and Stability: stored at -20 C

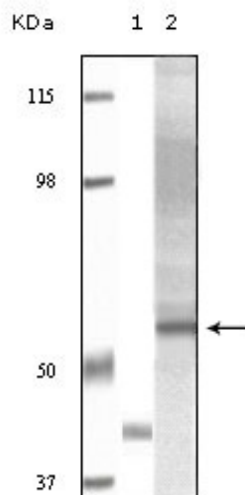


Figure 1: Western blot analysis using anti-Human Akt3 monoclonal antibody against truncated Akt3 recombinant protein(1) and human ovary carcinoma tissue lysate(2).