

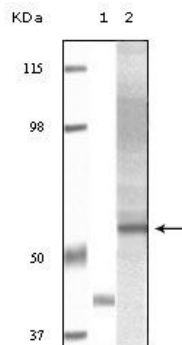
**AKT3****Mouse monoclonal Antibody****#54001****Catalog Number:** 54001**Amount:** 100µg/100µl**Swiss-Prot No. :** Q9Y243**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human AKT3 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of AKT3 and does not cross-react with related proteins**Reactivity:** Human**Applications:** Predicted MW: 55kd WB: 1:500-2000

Figure 1: Western blot analysis using Akt3 mouse mAb against truncated Akt3 recombinant protein (1) and human ovary carcinoma tissue lysate (2).

Background:

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.