



ATK2 Mouse Monoclonal Antibody

E10-30002

- 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.
- Catalog Number:** E10-30002
- Amount:** 100µg/100µl
- Clone Number:** 1B6
- Species:** Mouse IgG1
- MW** 60kDa
- Aliases:** PKBB; PRKBB; PKBBETA; RAC-BETA
- Entrez Gene:** 208
- Immunogen:** Purified recombinant fragment of human AKT2 expressed in E. Coli.
- Storage:** Store at 4 °C for long term storage, s
- Formulation:** Ascitic fluid containing 0.03% sodium azide.
- Species Reactivities:** Human; Rat; Monkey
- Tested Applications:** WB, IHC, IF, ELISA. Not yet tested in other applications.
- Application notes:** WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000, IF: 1/200 - 1/1000, ELISA: Propose dilution 1/10000.

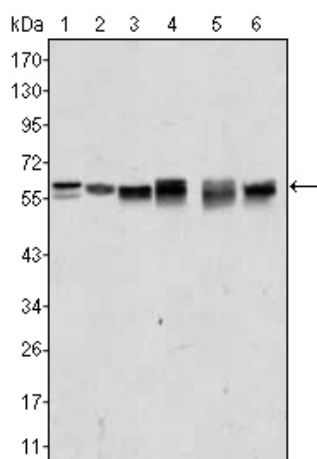


Figure 1: Western blot analysis using AKT2 mouse mAb against A431 (1), Jurkat (2), HEK293 (3), A549 (4), MCF-7 (5) and PC-12 (6) cell lysate.

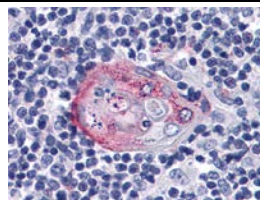


Figure 2: Immunohistochemical analysis of paraffin-embedded human Thymus tissues using anti-AKT2 mAb

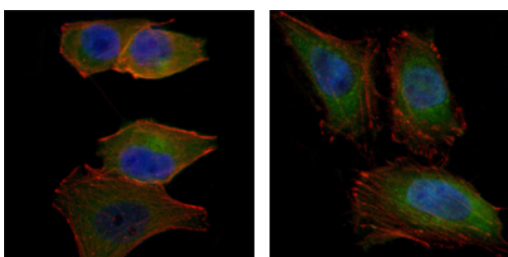


Figure 3: Immunofluorescence analysis of PANC-1 (left) and Hela (right) cells using AKT2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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