

Product Specification Sheet

Cat. #MA-30002

Mouse Monoclonal Anti Human protein kinase B beta (AKT2); Ascites

SIZE : 100 ul

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.

**Source of Antigen and Antibodies**

<b>Antigen</b>	Purified recombinant fragment of human AKT2 expressed in E. Coli.
<b>Ab Host/type</b>	Balb/c mouse. IgG1 Ascetic fluid containing 0.05% sodium azide.
<b>2-Ab</b>	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
<b>-ve control IgG</b>	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

**Isotype controls:**

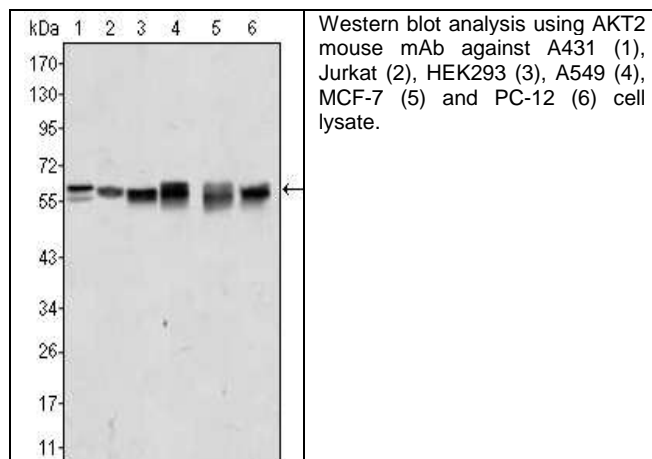
Catalog#	Product Description
20102-101	Mouse IgG1 isotype control, purified
20102-101-APC	Mouse IgG1-APC conjugate (isotype control)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype control)
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype control)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate (isotype control)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)

**Suggested Dilutions:**

Western blot	1:500 – 1:2000
Immunohistochemistry (IHC):	1:200 – 1:1000
Immunocytochemistry (ICC):	1:200 – 1:1000
Flow cytometry (FCM):	N/A
ELISA	1:5000 – 1:100000

**Form:** Antibodies are supplied in PBS, pH 7.5, 0.05% azide and 0.1% BSA in liquid (0.5-1 mg/ml) or lyophilized in the same buffer. Reconstitute powder in 100 ul water or PBS. Store at -20°C or below is suitable size Aliquotes.

**Shipping:** 4°C for solutions and room temp for powder.



**References:**

Am J Physiol Endocrinol Metab. 2004 287(1):E8-E15. Oncol Rep. 2004 11(1):25-32.

*\*All products are for In vitro research use only.*

**Related material available from ADI**

MA-30002

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