

## Datasheet

### AKT1 monoclonal antibody (M06), clone 2H1

**Catalog Number:** H00000207-M06

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a full length recombinant AKT1.

**Clone Name:** 2H1

**Immunogen:** AKT1 (AAH00479.1, 1 a.a. ~ 480 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

MSDVAIVKEGWLHKRGEYIKTWPRRYFLLKNDGTFIGY  
KERPDVDQREAPLNNFSVAQCQLMKTERPRPNTFII  
RCLQWTTVIERTLHVETPEEREWTIAIQTVADGLKKQ  
EEEEMDFRSGSPSDNSGAEEMEVS LAKPKHRVTMNE  
FEYLKLLGKGTFGKVLVKEKATGRYYAMKILKKEVIVA  
KDEVAHTLTENRVLQNSRHPFLTALKYSFQTHDRLCF  
VMEYANGGELFFHLSRERVFSEDRARFYGAEIVSALD  
YLHSEKNVVYRDLKLENLMLDKDGHKIDDFGLCKEGIK  
DGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGV  
VMYEMMCGRLPFYNQDHEKLFELLMEEIRFPRTLGP  
AKSLLSGLLKKDPKQRLGGSEDAKEIMQHRFFAGIV  
WQHVEKLLSPPFKPQVTSETDTRYFDEEFTAQMITIT  
PPDQDDSMECVDSERRPHFPQFSYSASGTA

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, IHC-P, S-ELISA, WB-Ce, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Isotype:** IgG2a Kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 207

**Gene Symbol:** AKT1

**Gene Alias:** AKT, MGC99656, PKB, PKB-ALPHA, PRKBA, RAC, RAC-ALPHA

**Gene Summary:** The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]