



## Mouse anti-Human AKT1 polyclonal antibody (DPAB-DC885)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	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. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.
<b>Immunogen</b>	AKT1 (AAH00479, 381 a.a. ~ 480 a.a) partial recombinant protein with GST tag. The sequence is  SGLLKKDPKQRLGGGSEDAKEIMQHRFFAGIVWQHVYEKKLSPPFKPQVTSETDTRYFDE EFTAQMITITPPDQDDSMECVDSERRPHFPQFSYSASGTA
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None

**Storage**

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

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">AKT1 v-akt murine thymoma viral oncogene homolog 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	AKT1
<b>Synonyms</b>	AKT1; v-akt murine thymoma viral oncogene homolog 1; AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA; RAC-alpha serine/threonine-protein kinase; AKT1m; PKB alpha; RAC-PK-alpha; proto-oncogene c-Akt; protein kinase B alpha; rac protein kinase alpha;
<b>Entrez Gene ID</b>	<a href="#">207</a>
<b>Protein Refseq</b>	<a href="#">NP_001014431</a>
<b>UniProt ID</b>	<a href="#">B0LPE5</a>
<b>Chromosome Location</b>	14q32.32
<b>Pathway</b>	AGE/RAGE pathway; AKT phosphorylates targets in the nucleus; AMPK signaling; AMPK signaling pathway
<b>Function</b>	14-3-3 protein binding; ATP binding; enzyme binding; identical protein binding