

## Recombinant Mouse Akt2 Protein, MYC/DDK-tagged

Cat. No. Akt2-567M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of full-length mouse thymoma viral proto-oncogene 2 (Akt2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	One of the few specific substrates of AKT2 identified so far is PITX2. Phosphorylation of PITX2 impairs its association with the CCND1 mRNA-stabilizing complex thus shortening the half-life of CCND1. AKT2 seems also to be the principal isoform responsible of the regulation of glucose uptake. Phosphorylates C2CD5 on 'Ser-197' during insulin-stimulated adipocytes. AKT2 is also specifically involved in skeletal muscle differentiation, one of its substrates in this process being ANKRD2. Phosphorylates CLK2 on 'Thr-343'.
<b>Molecular Mass</b>	56.2 kDa
<b>Purity</b>	>80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** [Akt2 thymoma viral proto-oncogene 2 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Akt2](#)

**Synonyms** Akt2; thymoma viral proto-oncogene 2; PKB; PKBbeta; AW554154; 2410016A19Rik; RAC-beta serine/threonine-protein kinase; PKB beta; RAC-PK-beta; protein kinase Akt-2; protein kinase B, beta; EC 2.7.11.1

**Gene ID** [11652](#)

**mRNA Refseq** [NM\\_007434](#)

**Protein Refseq** [NP\\_031460](#)

**UniProt ID** [Q60823](#)

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