

Recombinant Mouse Akt2 Protein, MYC/DDK-tagged

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

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse thymoma viral proto-oncogene 2 (Akt2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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'.
Molecular Mass	56.2 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>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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