

Akt2-KO

Nomenclature	C57BL/6Smoc- <i>Akt2</i> ^{em1Smoc}
Cat. NO.	NM-KO-190742
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Akt2	Synonyms	PKB, PKBbeta, AW554154, 2410016A19Rik
	NCBI ID	11652
	MGI ID	104874
	Ensembl ID	ENSMUSG000000004056
	Human Ortholog	AKT2

Model Description

Exon 3-4 of Akt2 gene was deleted to generate Akt2 knockout mice.

Research Application: Signal Transduction related

*Literature published using this strain should indicate: Akt2-KO mice (Cat. NO. NM-KO-190742) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Type 2 Diabetes Mellitus	Phenotype(s)	MGI:3629188
	Reference(s)	Cho H, Mu J, Kim JK, Thorvaldsen JL, Chu Q, Crenshaw EB 3rd, Kaestner KH, Bartolomei MS, Shulman GI, Birnbaum MJ, Insulin resistance and a diabetes mellitus-like syndrome in mice lacking the protein kinase Akt2 (PKB beta). Science. 2001 Jun 1;292(5522):1728-31

Polycystic Ovary Syndrome	Phenotype(s)	MGI:5429853
	Reference(s)	Restuccia DF, Hynx D, Hemmings BA, Loss of PKBbeta/Akt2 predisposes mice to ovarian cyst formation and increases the severity of polycystic ovary formation in vivo. Dis Model Mech. 2012 May;5(3):403-11

Validation Data

No data