

Cav1-KO

Nomenclature	C57BL/6Smoc- <i>Cav1</i> ^{em1Smoc}
Cat. NO.	NM-KO-190930
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol Cav1	Synonyms	Cav; Cav-1
	NCBI ID	12389
	MGI ID	102709
	Ensembl ID	ENSMUSG000000007655
	Human Ortholog	CAV1

Model Description

Exon 3 of Cav1 gene was deleted to generate Cav1 knockout mice.

Research Application: Tumor suppression,vascular system,fibrosis,Berardinelli-Seip congenital lipodystrophy

*Literature published using this strain should indicate: Cav1-KO mice (Cat. NO. NM-KO-190930) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Alzheimer's Disease	Phenotype(s)	MGI:5014041
	Reference(s)	Head BP, Peart JN, Panneerselvam M, Yokoyama T, Pearn ML, Niesman IR, Bonds JA, Schilling JM, Miyanohara A, Headrick J, Ali SS, Roth DM, Patel PM, Patel HH, Loss of caveolin-1 accelerates neurodegeneration and aging. PLoS One. 2010;5(12):e15697

Breast Cancer	Phenotype(s)	MGI:3843497
	Reference(s)	Mercier I, Casimiro MC, Zhou J, Wang C, Plymire C, Bryant KG, Daumer KM, Sotgia F, Bonuccelli G, Witkiewicz AK, Lin J, Tran TH, Milliman J, Frank PG, Jasmin JF, Rui H, Pestell RG, Lisanti MP, Genetic ablation of caveolin-1 drives estrogen-hypersensitivity and the development of DCIS-like mammary lesions. Am J Pathol. 2009 Apr;174(4):1172-90
Hypertrophic Cardiomyopathy	Phenotype(s)	MGI:2669401
	Reference(s)	Park DS, Cohen AW, Frank PG, Razani B, Lee H, Williams TM, Chandra M, Shirani J, De Souza AP, Tang B, Jelicks LA, Factor SM, Weiss LM, Tanowitz HB, Lisanti MP, Caveolin-1 Null (-/-) Mice Show Dramatic Reductions in Life Span. Biochemistry. 2003 Dec 30;42(51):15124-15131

Validation Data

No data