Hexb-KO

Nomenclature	C57BL/6Smoc-*Hexb*^{em1Smoc}
Cat. NO.	NM-KO-202069
Strain State	Sperm cryopreservation

Gene Summary

Gene Symbol **Hexb**	**Synonyms**	
	NCBI ID	15212
	MGI ID	96074
	Ensembl ID	ENSMUSG00000021665
	Human Ortholog	HEXB

Model Description

Exon 2 of Hexb gene was deleted to generate Hexb knockout mice.
*Literature published using this strain should indicate: Hexb-KO mice (Cat. NO. NM-KO-202069) were purchased from Shanghai Model Organisms Center, Inc..

Disease Connection

Sly Syndrome	**Phenotype(s)**	MGI:2177551 Note: The expected phenotype(s) may be observed in the above-mentioned mice that bred with Hexa-KO(NM-KO-200986) mice.
	Reference(s)	Sango K, McDonald MP, Crawley JN, Mack ML, Tifft CJ, Skop E, Starr CM, Hoffmann A, Sandhoff K, Suzuki K, Proia RL, Mice lacking both subunits of lysosomal beta-hexosaminidase display gangliosidosis and mucopolysaccharidosis. Nat Genet. 1996 Nov;14(3):348-52

Sandhoff Disease	**Phenotype(s)**	MGI:3579384 Note：The expected phenotype(s) may be observed in the above-mentioned mice that bred with Fcer1g-KO(NM-KO-190187) mice.
	Reference(s)	Yamaguchi A, Katsuyama K, Nagahama K, Takai T, Aoki I, Yamanaka S, Possible role of autoantibodies in the pathophysiology of GM2 gangliosidoses. J Clin Invest. 2004 Jan;113(2):200-8
Sandhoff disease	**Phenotype(s)**	MGI:3579804 Note：The expected phenotype(s) may be observed in the above-mentioned mice that bred with Ccl3-KO(NM-KO-190014) mice.
	Reference(s)	Wu YP, Proia RL, Deletion of macrophage-inflammatory protein 1 alpha retards neurodegeneration in Sandhoff disease mice. Proc Natl Acad Sci U S A. 2004 Jun 1;101(22):8425-30
Sandhoff disease	**Phenotype(s)**	MGI:2177468
	Reference(s)	Sango K, Yamanaka S, Hoffmann A, Okuda Y, Grinberg A, Westphal H, McDonald MP, Crawley JN, Sandhoff K, Suzuki K, Proia RL, Mouse models of Tay-Sachs and Sandhoff diseases differ in neurologic phenotype and ganglioside metabolism. Nat Genet. 1995 Oct;11(2):170-6

Validation Data

No data