

Sin3a-associated Hdac1 and Hdac2 are essential for hematopoietic stem cell homeostasis and contribute differentially to hematopoiesis

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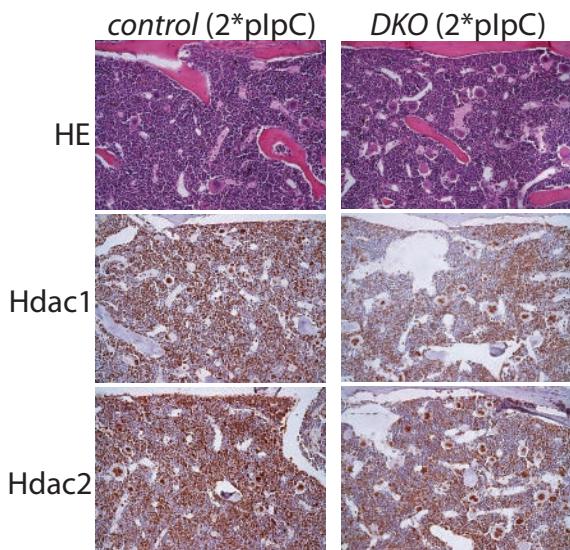
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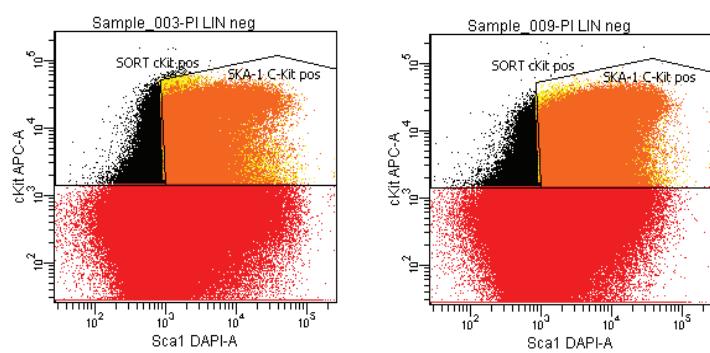
Manuscript received on June 11, 2013. Manuscript accepted on April 23, 2014.

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A



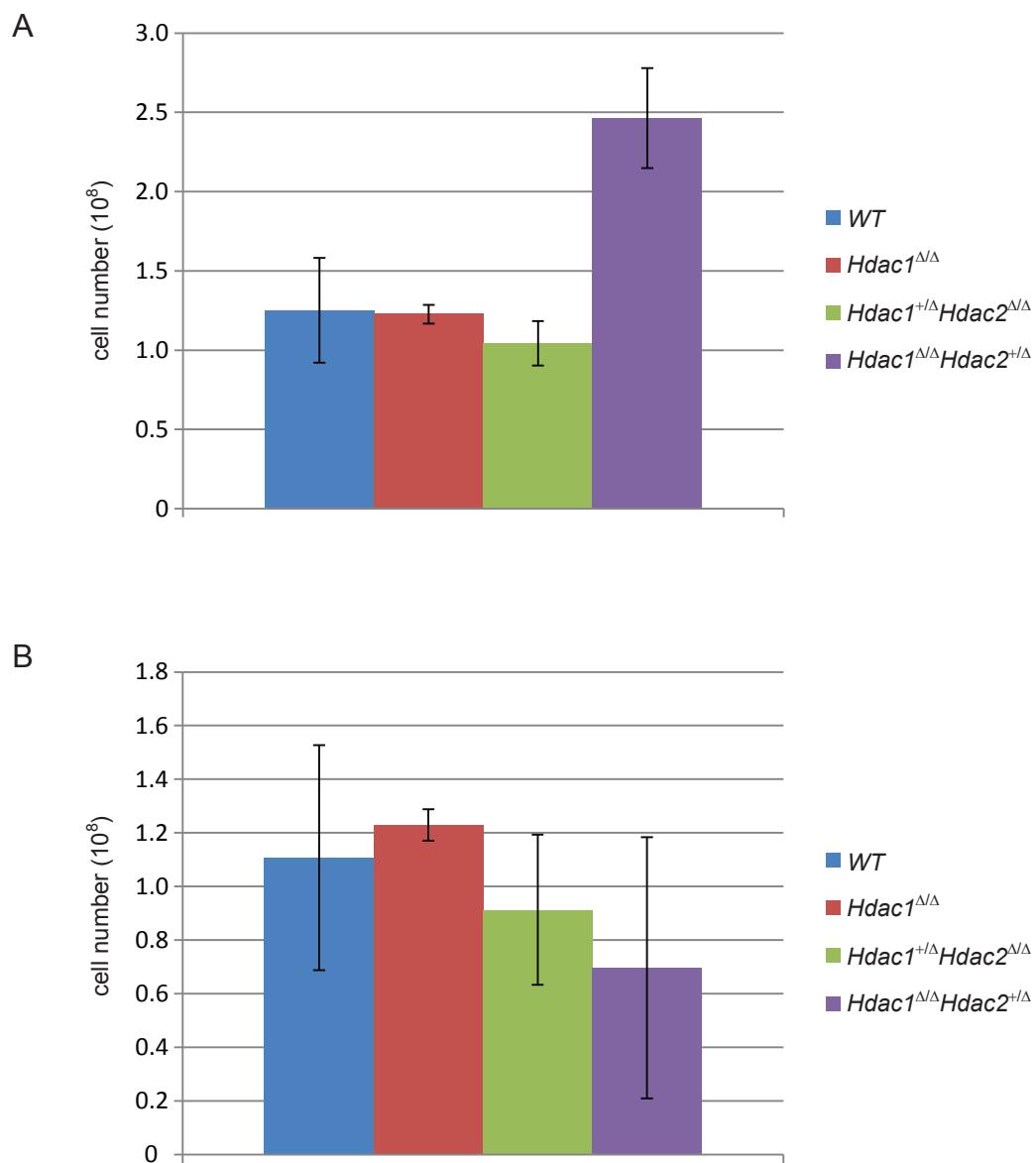
B



C

	logFC_WT_KO	adj.P.Val_WT_KO
Nucks1	0,553215	0.0110655530022701
Dnahc8	0,728337	0.0289364661232244
Fau	-0,43439	0.0289364661232244
Lrp1	-0,64169	0.0243800661799069
Rpl18a	-0,47113	0.0363725094887134
Rps23	-0,46301	0.0476988559531298
Rpl32	-0,4785	0.0296235854385924
Tpt1	-0,45686	0.0302988474282283
Dmkn	-0,89179	0.0289364661232244
mt-Nd2	-0,79362	0.0127288944542785
mt-Co2	-0,6425	0.00916367966742048
mt-Nd4	-0,81305	0.00404891768433123
mt-Nd5	-0,88156	0.00404891768433123
mt-Nd6	-0,93676	0.00144228407663894
Mir5105	-0,97321	0.0261331526496023

Gene expression profiling of control versus *DKO* bone marrow **a)** Haematoxylin-eosin-stained and immunohistochemistry on paraffin tissue sections of bone marrow of the indicated genotypes, using antibodies against Hdac1 and Hdac2. **b)** Flow cytometry plots from bone marrow Lin+ depleted cells, showing c-Kit and Scal positivity. Highly c-Kit positive progenitors were sorted and mRNA-seq was performed. **c)** Genes with expression changes induced by Hdac1 and Hdac2 deletion in 4-week-old Mx-Cre Hdac1^{Δ/Δ};Hdac2^{Δ/Δ} bone marrow progenitors (adjusted P value < 0.05, fold change ≥1.5×, wt n=3 DKO n=2)



Quantification of **a**) splenocytes after erythrocyte lysis and **b**) thymocytes in mice with indicated genotypes (n=3 per group).