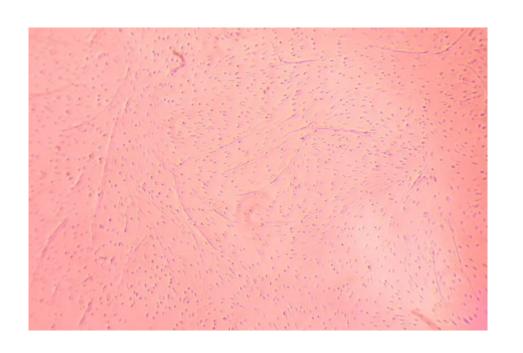
Figure S1



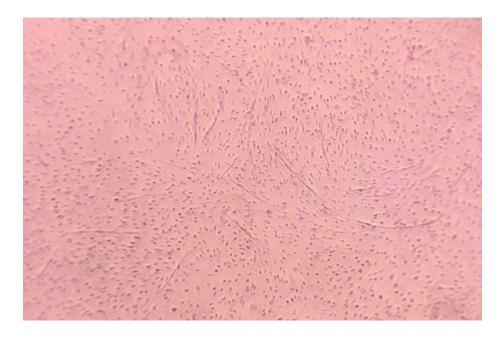


Figure S2

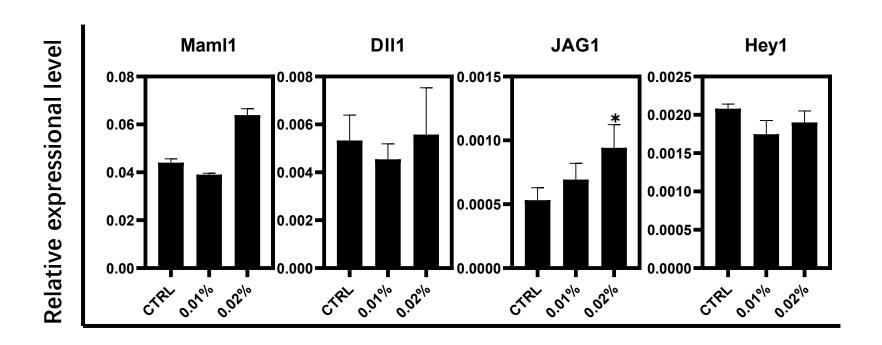
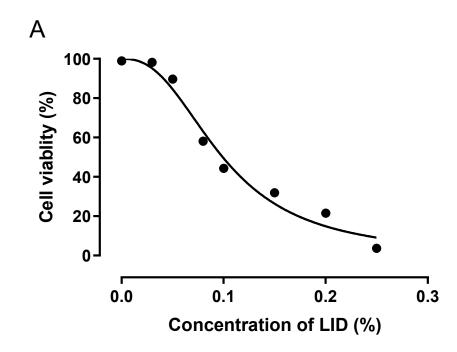


Figure S3 Csl DII4 Hes1 Notch1 Notch2 Relative expressional level ➤ 0.000025 0.015 0.020 0.020 0.008 0.000020-0.015-0.006 -0.015 0.010-0.000015-0.004 0.010 -0.010 0.000010-0.005 0.005-0.002 -0.005 0.000005-0.000000 0.000 Si Dila to 00% LID SIDIIA TO O 1º OLID Si Dila to 02º lo LID Si Dila to 02º lo LID Si Dila to 00% LID SIDIA tO O O O LID Si DIIA to 02º lo LID Si DIA *OLID Si DIIA *O.O.O.O.LID Si DIIA to 02º lo LID si DIIA *OLID Si DIIA *O.O2º/oLID si DIIA *OLID SI DIIA *OLID si DIIA *OLID siNC siNC SINC SINC SINC Hes1 В Notch1 Notch2 DII4 Csl 0.015 0.020 0.005 .00004 0.015 Relative expressional level 0.004 0.015-0.00003-0.010-0.010-0.003 0.010-0.00002 0.002 0.005-0.005 0.005 0.00001 -0.001 -0.000 0.000 si Notch2 ro.01% LID si Notch2 ro.01% LID si Notch2 ro.01% LID si Notch2 to 02% LID si Notch2 ro.02% LID si Notch2 toLID si Notch2 to 02º loLID si Notch2 ro.01% LID si Notch2 to 02º loLID si Notch2 to 01% LID si Motch2 rolli si Notch2 toLID si Notch2 rolli si Notch2 to 02% LID si Motch2 roLID Hes1 Notch1 DII4 Csl Notch2 0.020 0.005 0.00005 0.010 -0.010 expressional level 0.008 0.004 -0.00004 -0.008 -0.015 -0.006 -0.00003 -0.003 -0.006 -0.010 0.004 0.002 0.00002 -0.004 0.005 -0.002 -0.00001 -0.002 -0.001 0.000 0.000 0.00000 0.000 0.000 si Notch1 +0.01% LID si Notch1 *0.01° loLID si Notch1 +0.01% LID si Notch1 +0.01° loLID si Notch1 roLID si Notch1 x0.02º loLID si Notch roll si Notch1 *0.01° oLID Si Notch1 *0.02º loLID si Notch volid si Notch1 x0.02ºloLID Si Notch1 x0.02º loLID si Notch rollin si Notch1 roLID Si Notch1 *0.02% LID Relative

Figure S4



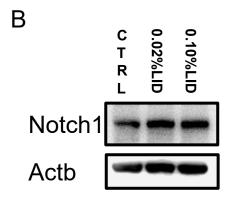


Figure S5 Notch1 Notch2 Myog, MyoD1 Myogenesis inhibition Hes1 Stemness maintenance Pax3, Pax7

Supplemental Figure Legends

Figure S1. Primary culture EOM myoblasts were induced in differential medium. Pictures were taken in the third and fouth days. The myoblasts formed mature myotudes.

Figure S2. Some genes in the Notch signal pathway didn't show significant change after treating by lidocaine. qRT-PCR was used to measure the transcript levels of gene: Mmal1, Hey1, Dll1, Jag1. (#P>0.05, *P<0.05, **P<0.01, ***P<0.001, n=3, bars represent SD).

Figure S3. (A, B, C) Dll4, Notch2 and Notch1 were silenced respectively with siRNA. qRT-PCR was used to measure the transcript levels of gene: Notch1, Notch2, Dll4, Csl, Hes1.

Figure S4. (A) Apoptotic effects of lidocaine. (B) Protein level of Notch1 was analyzed by western blot.

Figure S5. Schematic diagram to show the involvement of Notch pathway signal. The green arrows mean activating while red arrow means inhibition.