Additional file 1.

Contribution of voltage-gated sodium channel β-subunits to cervical cancer cells metastatic behavior

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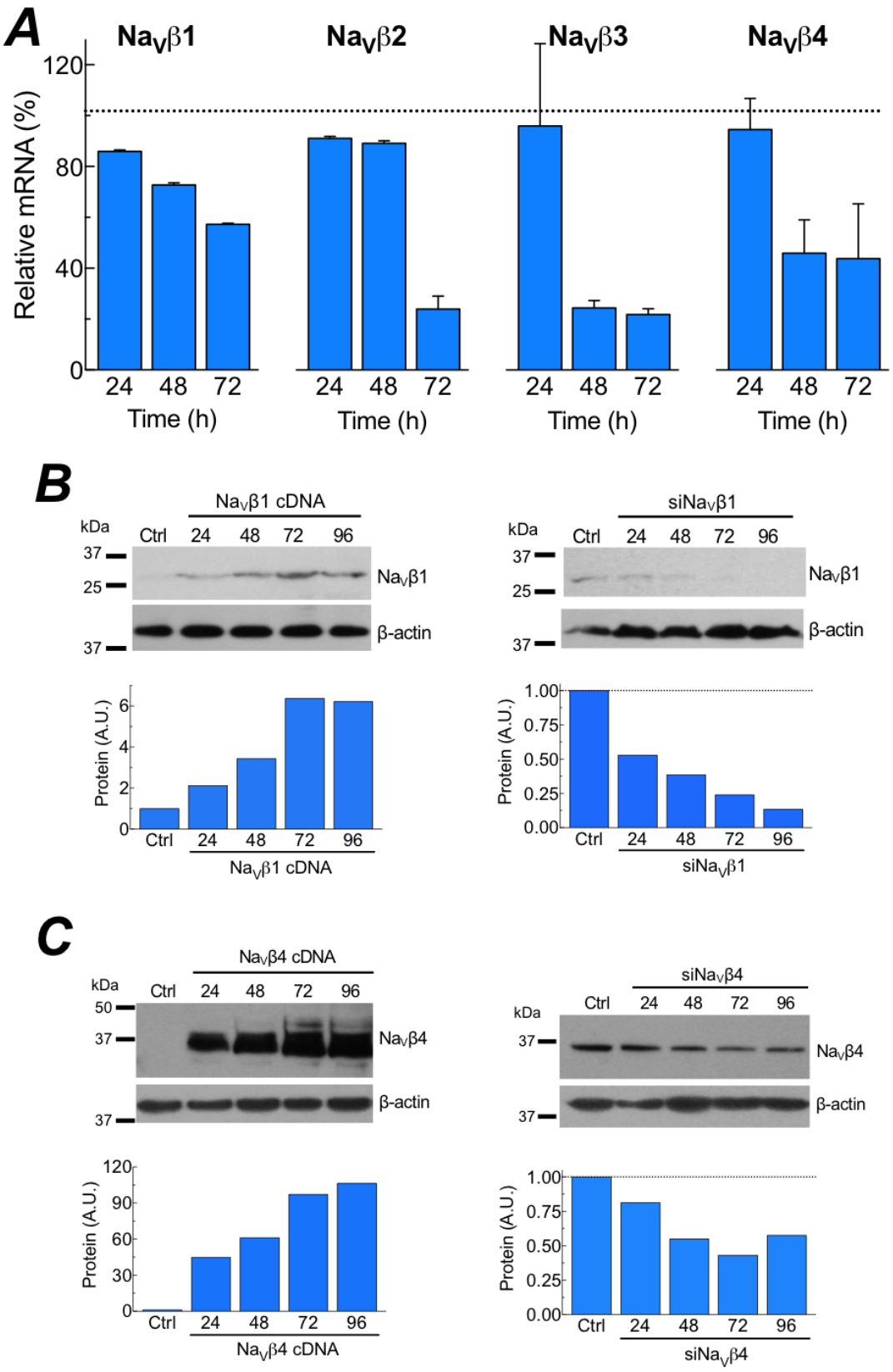
A
Na$_V$β1
Na$_V$β2
Na$_V$β3
Na$_V$β4
Relative mRNA (%)
120
80
40
0
24 48 72
Time (h)
B
Na$_V$β1 cDNA
siNa$_V$β1
kDa
Ctrl 24 48 72 96
37
25
Na$_V$β1
β-actin
Protein (A.U.)
C
Na$_V$β4 cDNA
siNa$_V$β4
50
Na$_V$β4

Additional file 1. Evaluation of $Na_V\beta$s expression after transfecting HeLa cells with siRNAs or cDNAs. ***A***. Real-Time PCR analysis of $Na_V\beta$s mRNA expression levels for HeLa cells 24, 48 and 72 h after transfection with 100 nM of the specific siRNAs for each subunit. Data was normalized with HPRT1 mRNA levels, and relative to each β-subunit mRNA expression in control (mock) conditions (100%, dotted line). Bars denotes mean ± S.D. ***B***, ***C***. Western blot analysis of $Na_V\beta1$ and $Na_V\beta4$ expression in transfected HeLa cells. Protein expression was assessed by using specific antibodies against $Na_V\beta1$ (***B***) or $Na_V\beta4$ (***C***) at 24, 48, 72 and 96 h post-transfection with the respective plasmid to overexpress (left panels) or with siRNAs (right panels) to deplete them. β-actin detection was used as a control for loading. Bar graphs show quantified data for $Na_V\beta$s protein expression normalized with β-actin expression for each condition and relative to control cells.