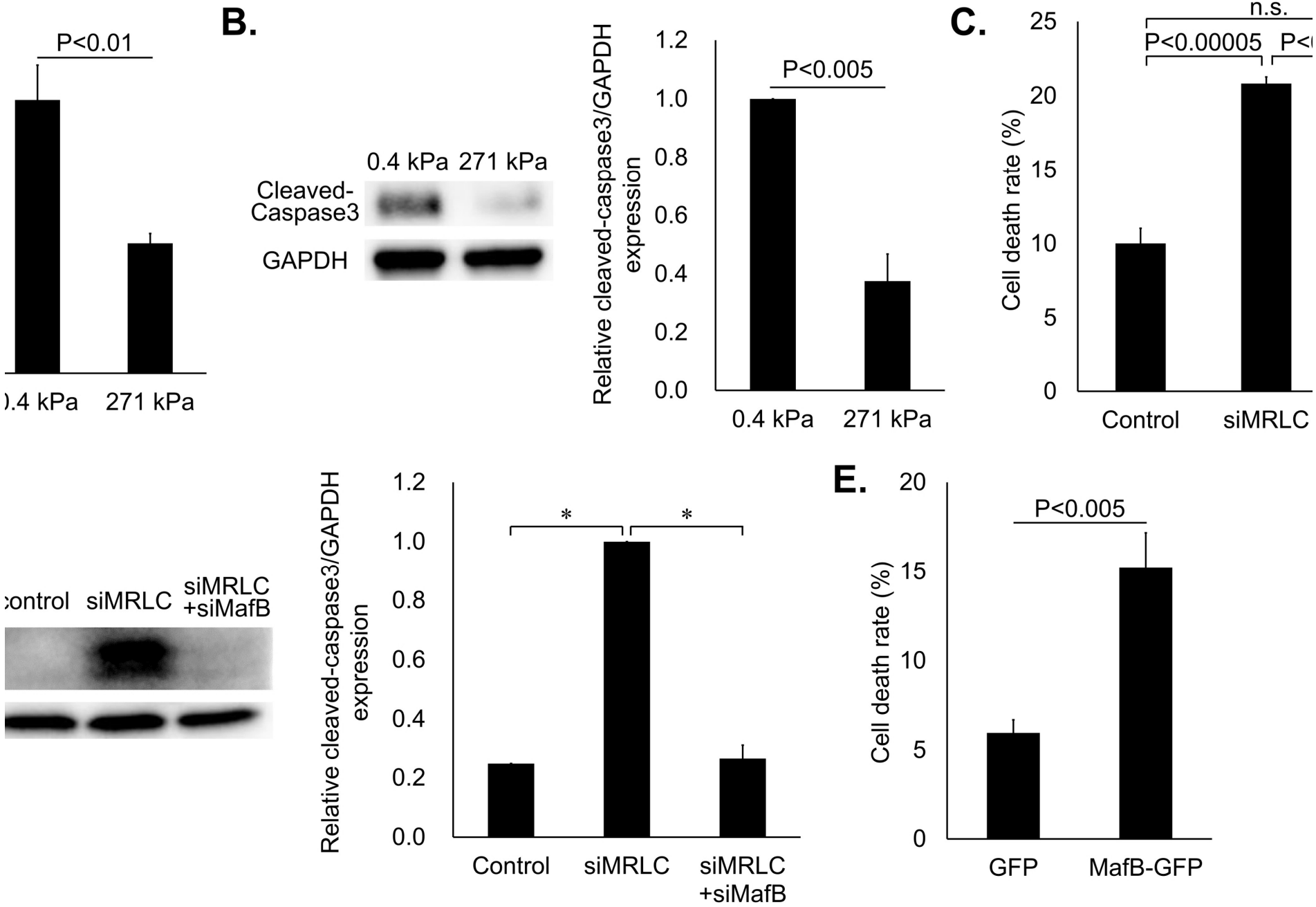
HOKKAIDO UNIVERSITY

Title	Substrate stiffness induces nuclear localization of myosin regulatory light chain to suppress apoptosis
Author(s)	Onishi, Katsuya; Ishihara, Seiichiro; Takahashi, Masayuki et al.
Citation	FEBS Letters, 597(5), 643-656 https://doi.org/10.1002/1873-3468.14592
Issue Date	2023-03-13
Doc URL	https://hdl.handle.net/2115/91296
Rights	This is the peer reviewed version of the following article: Onishi, K., Ishihara, S., Takahashi, M., Sakai, A., Enomoto, A., Suzuki, K. and Haga, H. (2023), Substrate stiffness induces nuclear localization of myosin regulatory light chain to suppress apoptosis. FEBS Lett, 597: 643-656., which has been published in final form at Link to final article using the https://doi.org/10.1002/1873-3468.14592. This article may be used for non-commercial purposes in accordance with Wiley Terms and Conditions for Use of Self-Archived Versions. This article may not be enhanced, enriched or otherwise transformed into a derivative work, without express permission from Wiley or by statutory rights under applicable legislation. Copyright notices must not be removed, obscured or modified. The article must be linked to Wiley's version of record on Wiley Online Library and any embedding, framing or otherwise making available the article or pages thereof by third parties from platforms, services and websites other than Wiley Online Library must be prohibited.
Type	journal article
File Information	5.pdf

Hokkaido University Collection of Scholarly and Academic Papers : HUSCAP


P<0.01
.4 kPa
271 kPa
B.
0.4 kPa 271 kPa
Cleaved-
Caspase3
GAPDH
Relative cleaved-caspase3/GAPDH
expression
1.2
1.0
0.8
0.6
0.4
0.2
0.0
P<0.005
0.4 kPa
271 kPa
C.
n.s.
P<0.00005
P<
Cell death rate (%)
25
20
15
10
5
0
Control
siMRLC
ontrol
siMRLC
siMRLC
+siMafB
Relative cleaved-caspase3/GAPDH
expression
1.2
1.0
0.8
0.6
0.4
0.2
0.0
*
*
Control
siMRLC
siMRLC
+siMafB
E.
Cell death rate (%)
20
15
10
5
0
P<0.005
GFP
MafB-GFP