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Title	Substrate stiffness induces nuclear localization of myosin regulatory light chain to suppress apoptosis
Author(s)	Onishi, Katsuya; Ishihara, Seiichiro; Takahashi, Masayuki et al.
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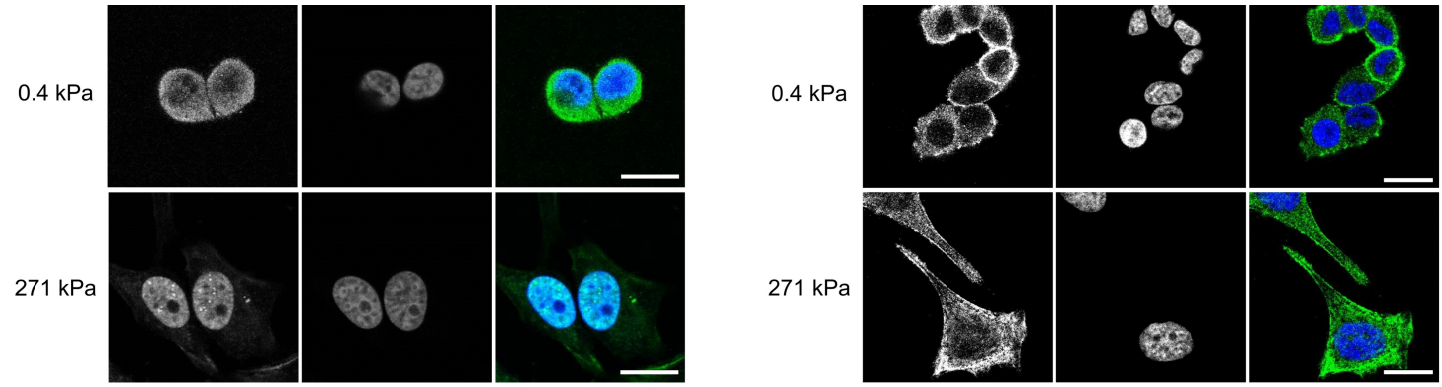
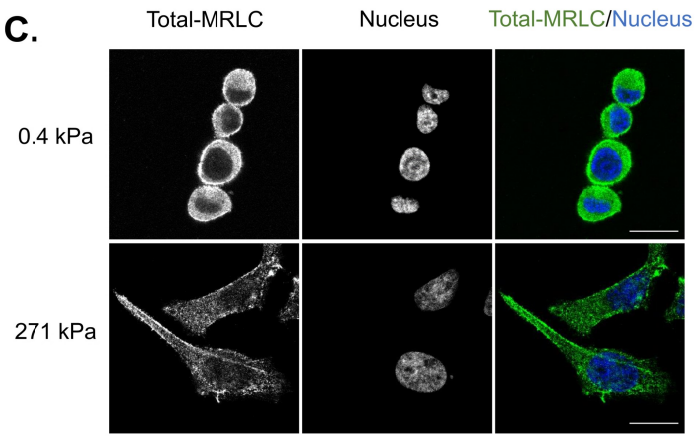
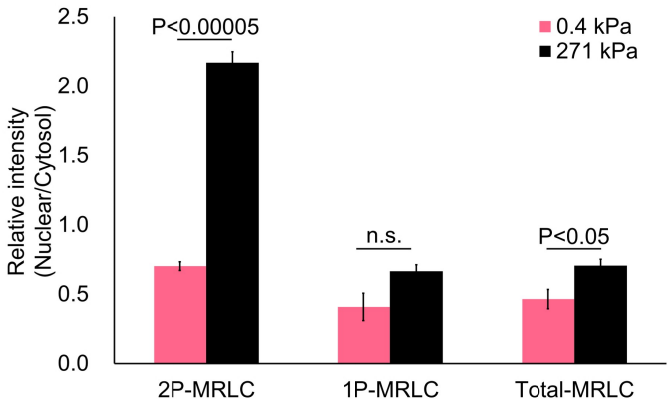

0.4 kPa
271 kPa
0.4 kPa
271 kPa

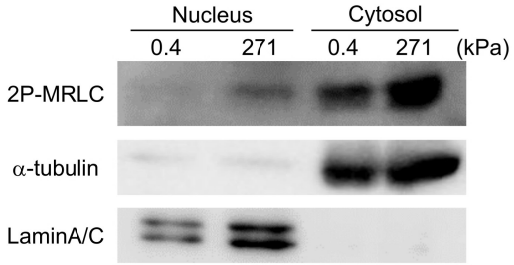
C.


Total-MRLC
Nucleus
Total-MRLC/Nucleus
0.4 kPa
271 kPa

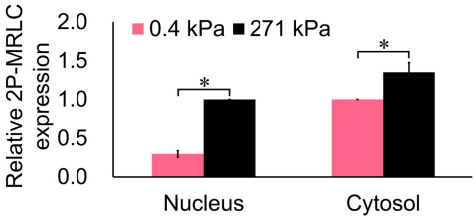
D.


P<0.00005
0.4 kPa
271 kPa
Relative intensity (Nuclear/Cytosol)
2.5
2.0
1.5
1.0
0.5
0.0
n.s.
P<0.05
2P-MRLC
1P-MRLC
Total-MRLC

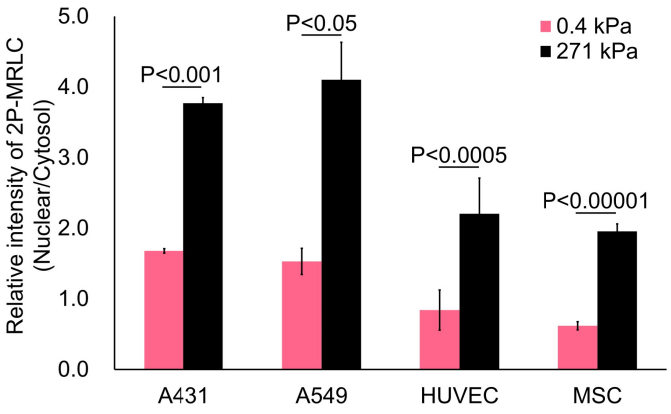
E.


Nucleus
Cytosol
0.4
271
0.4
271
(kPa)
2P-MRLC
α-tubulin
LaminA/C

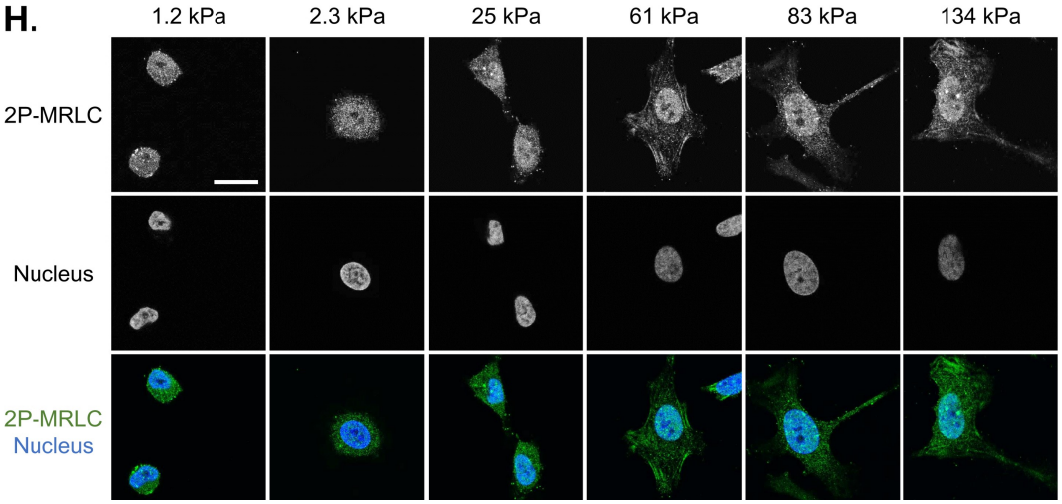
F.


0.4 kPa
271 kPa
Relative 2P-MRLC expression
2.0
1.5
1.0
0.5
0.0
*
*
Nucleus
Cytosol

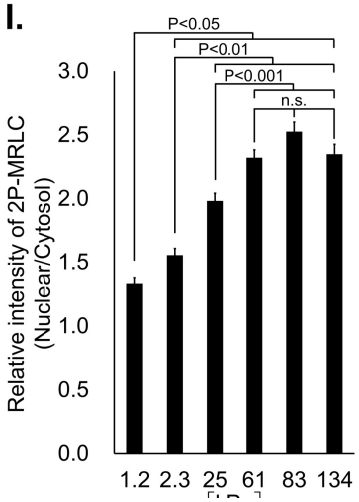
G.


0.4 kPa
271 kPa
Relative intensity of 2P-MRLC (Nuclear/Cytosol)
5.0
4.0
3.0
2.0
1.0
0.0
P<0.001
P<0.05
P<0.0005
P<0.00001
A431
A549
HUVEC
MSC

H.


1.2 kPa
2.3 kPa
25 kPa
61 kPa
83 kPa
134 kPa
2P-MRLC
Nucleus
2P-MRLC
Nucleus

I.


P<0.05
P<0.01
P<0.001
n.s.
Relative intensity of 2P-MRLC (Nuclear/Cytosol)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.2
2.3
25
61
83
134