

SUPPLEMENTAL MATERIALS

TABLE. S1. List of gene-specific primer sets for SYBR Green real-time qPCR and RT-PCR.

gene name	gene symbol	forward primer	reverse primer
GAPDH	GAPDH	ACCCACTCCTCCACCTTTGAC	TCCACCACCCTGTTGCTGTAC
caldesmon	CALD1	CGCCAGAAGATGCCAGAAGATG	TTGGAGACTATTGCTGCTTGATGG
tropomyosin 1	TPM1	CGGTCGGCATCTTCAGCAATG	GAGAGTGAGAGAGGCATGAAAGTC
tropomyosin 2	TPM2	CAGAAATTGCCAACATTGC	AAACCATGAAGCCAGTGC
fascin 1	FSCN1	GGAGACCGACCAGGAGAC	CATTGGACGCCCTCAGTG
filamin A	FLNA	CATCAAGTACGGTGGTGACG	ACATCCACCTCTGAGCCATC
p34Arc	ARPC2	ACAGAGTCACAGTAGTCTTCAG	TAATGTAGCCAATGTTGTCACC
p21Arc	ARPC3	AGATACAGATATTGTGGATGAAGC	ATACATTTCTTTCTCACCTTGGC
vinculin	VCL	TCAGATGAGGTGACTCGGTTGG	GGGTGCTTATGGTTGGGATTCCG
zyxin	ZYX	AGGCAGAATGTGGCTGTCAAC	GGTGAAGCAGGCGATGTGG
talin 1	TLN1	CCCTGATGTGCGGCTTCG	TGTCCTGTCAACTGCTGCTTC
paxillin	PXN	CCCTGACGAAAGAGAAGCCTAAG	AGATGCGTGTCTGCTGTTGG
actinin 1	ACTN1	CCAAGATTGTCCAGACCTACCAC	CCTCTCATTGTGCTGCTGTCCG
cortactin	CTTN	GCCGACCGAGTAGACAAG	GTATTTGCCGCCGAAACC
β 1-catenin	CTNNB1	GGTCCTCTGTGAACTTGCTC	TTCTTGTAATCTTGTGGCTTGTCC
α 1-integrin	ITGA1	GGTGCTTATTGGTTCTCCGTTAG	TTCTCCTTTACTTCTGTGACATTGG
β 1-integrin	ITGB1	GAGGAGGATTACTTCGGACTTCAG	GCTGGTGTGCTAATGTAAGG
gelsolin	GSN	TGTCCTACCTTTCCAGCCATATCG	TGTCGCCTCCATAGAAGTGTCC
profilin 1	PFN1	GGGAAAACGTTCTGCAACAT	ACACCTTCTTTGCCCATCAG
cofilin 1	CFL1	GCCAACTTCTAACCGCAATAG	CCTTACTGGTCTGCTTCC
β actin	ACTB	GAACGGTGAAGGTGACAG	TTTAGGATGGCAAGGGACT
tubulin α 1a	TUBA1A	GACGACTCCTTCACCACCTTC	GCATAGTTGTTGGCAGCATCC
EGFP	EGFP	ACGTAAACGGCCACAAGTTC	AAGTCGTGCTGCTTCATGTG
total CaD		GCAGAAAAGCAGTGGTGTCA	GCGAATTAGCCCTCTACAAGTCTG
fibroblast CaD		CCTCGGGAAGAAGTTTCAGA	GTTGGGTCGAACTCCTTCTG
HeLa CaD		GACAAGCCCAGACTTTTCGTC	GTTGGGTCGAACTCCTTCTG

SUPPLEMENTAL FIGURE LEGENDS

FIGURE S1. GC-dependent transactivation driven by the retroviral expression system. First cDNA was synthesized from the GFP-A549 cells, which were stably transfected by retroviral infection, and treated with vehicle or 1 μ M DEX for 24 hours. Real-time qPCR was then performed using the cDNAs. The expression level of GFP was normalized to the GAPDH expression in each sample (mean \pm SD, ***, $p < 0.001$).

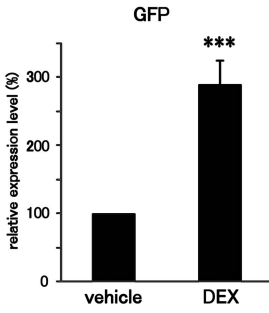
FIGURE S2. Comparison of the expression of the two CaD mRNAs. A549 cells were incubated with vehicle or 1 μ M DEX for the indicated times. The expression levels of CaD mRNA were measured by semi-quantitative RT-PCR using three primer sets, one each for the fibroblast- and HeLa-type CaDs, and one to ascertain the total CaD mRNA.

FIGURE S3. Alignment of the fibroblast-type CALD1 gene promoter region from various species. Proximal regions of the fibroblast-type *CALD1* gene of Human (*H. sapiens*), rat (*R. norvegicus*), and mouse (*M. musculus*) are shown. The conserved residues are shaded. The two GRE-like sequences (GRE-like1 and GRE-like2) are underlined.

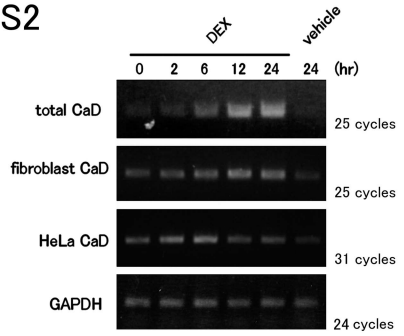
FIGURE S4. Effect of CaD depletion on stress fiber stability to cytochalasin D. A549 cells transfected with CaD siRNAs or control siRNA were incubated with vehicle or 1 μ M DEX for 48 hr. The cells were treated with or without 0.2 μ M cytD for 20 min, and stained with phalloidin. Bar: 50 μ m.

FIGURE S5 GFP-CaD expression counteracts the effects of endogenous CaD depletion. Effect of DEX on the actin cytoskeleton of GFP-CaD-expressing A549 cells, which were depleted of endogenous CaD by the CaD siRNA2. The cells were stained with anti-GFP (*green* in merged image), anti-CaD (*red* in merged image), and phalloidin (*blue* in merged image). Bar: 50 μ m.

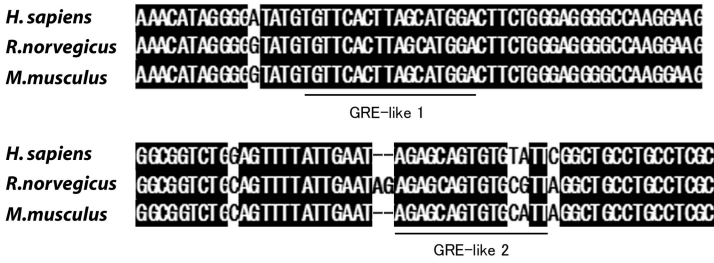
S1



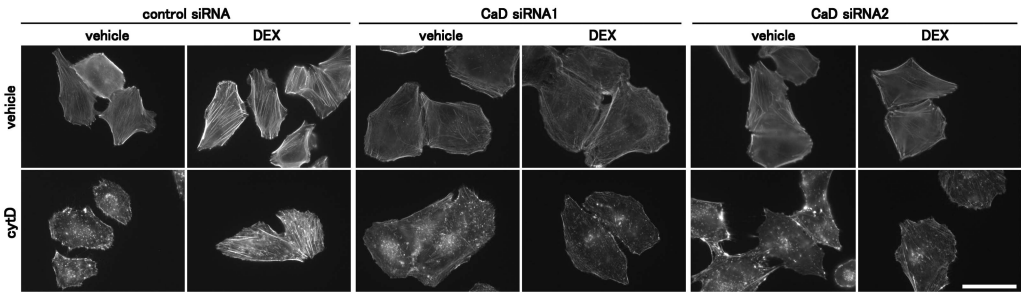
S2



S3



S4



S5

