

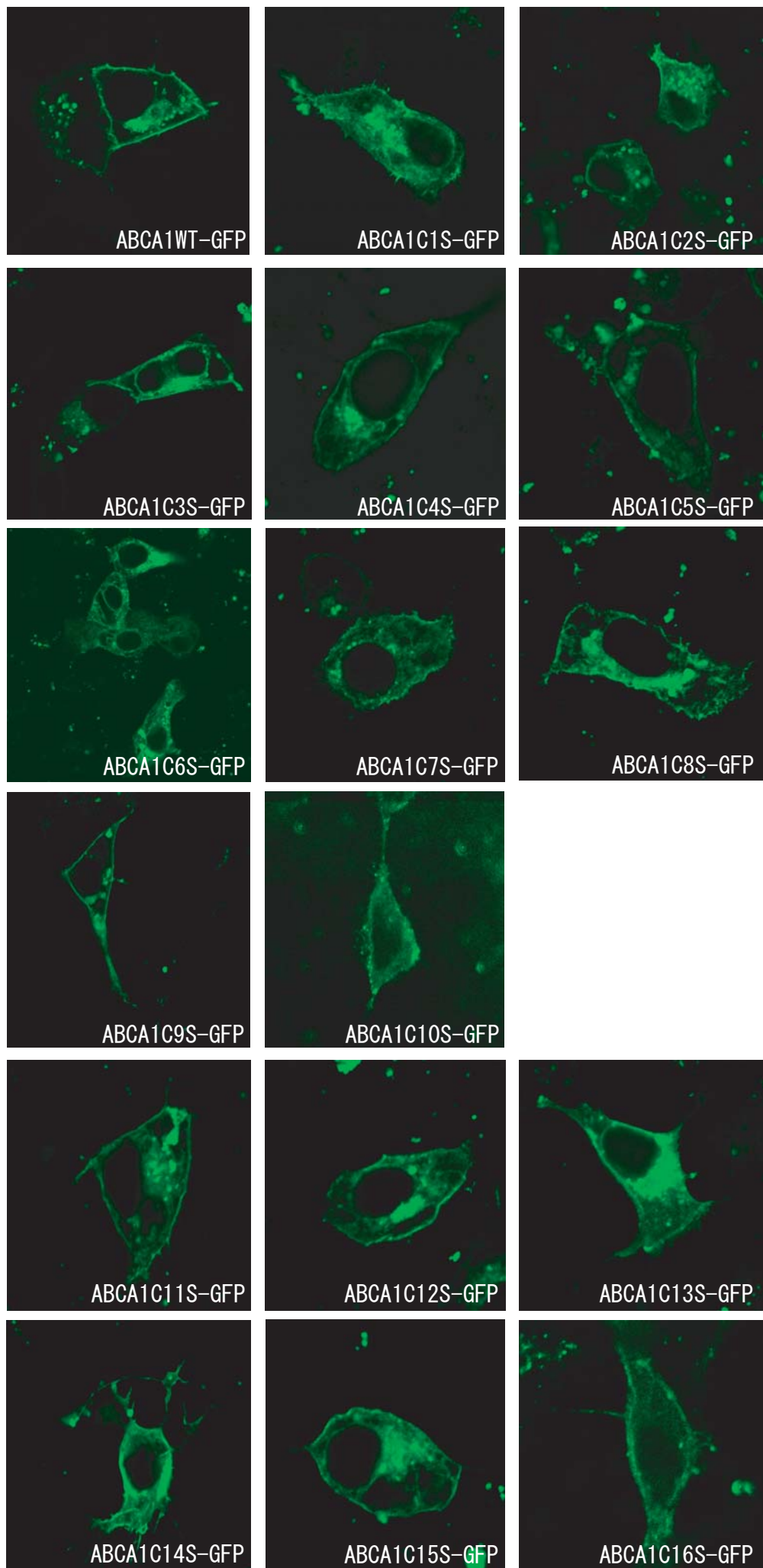
Supplementary Table I

cysteine-to-serine mutation

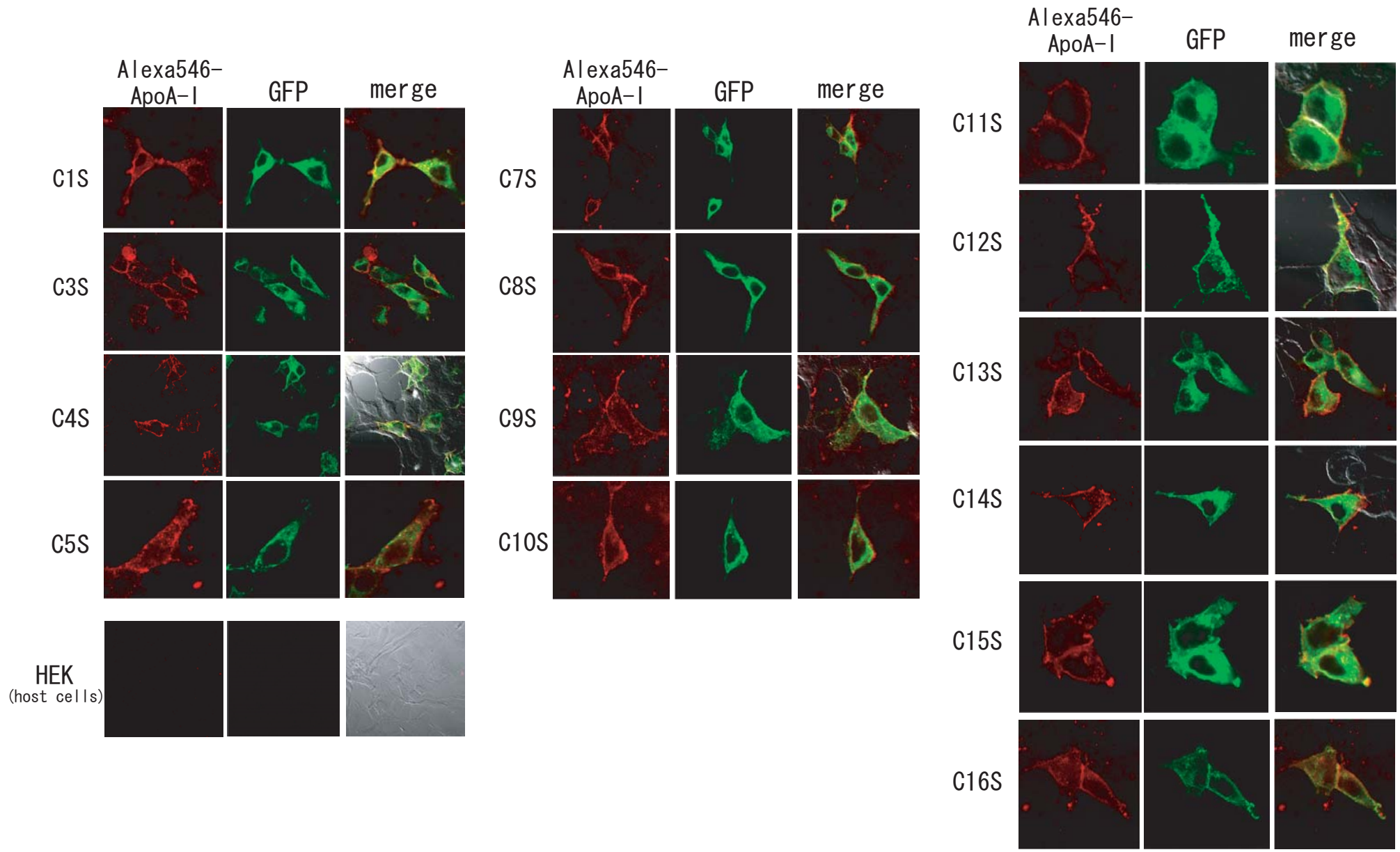
C1S	G161C	ccctatgaacaacatgaat <u>cc</u> attttccaaataaagcc
C2S	G224C	gttcaggggattatct <u>ct</u> aatgccaacaacccc
C3S	G242C	gccaacaaccct <u>ct</u> ttccgttacccg
C4S	G584C	gacaagtctgt <u>cc</u> aatggatcaaaatc
C5S	G644C	gtttctgagcttt <u>ct</u> ggcctaccaaggg
C6S	G926C	cgtattgtct <u>cc</u> gggcatcccagagg
C7S	G1064C	tctacaactccttact <u>cc</u> aatgattgatgaag
C8S	G1511C	cgcttcattggagt <u>ct</u> gtcaacctgaacaagc
C9S	G1877C	gcctateccct <u>ct</u> tacgttgatgac
C10S	G2372C	ctttgggtttggct <u>ct</u> gagtactttgcc
C11S	G4253C	tcgggaccgct <u>ct</u> atggaaggaaaccc
C12S	G4286C	gacacgcct <u>cc</u> caggcaggggagg
C13S	G4388C	ccctcacctgcat <u>cc</u> cagtgtagcagc
C14S	G4394C	cctgcatgccagt <u>ct</u> tagcagcgacaaaatc
C15S	G4430C	gctgcctgtgt <u>ct</u> ccccaggggcagg
C16S	G5441C	ctccacatttt <u>cc</u> ctgggacgag
C13/14S	G4388C/G4394C	cctgcat <u>cc</u> cagt <u>ct</u> tagcagcgacaaaatc

serine-to-cysteine reverse mutation

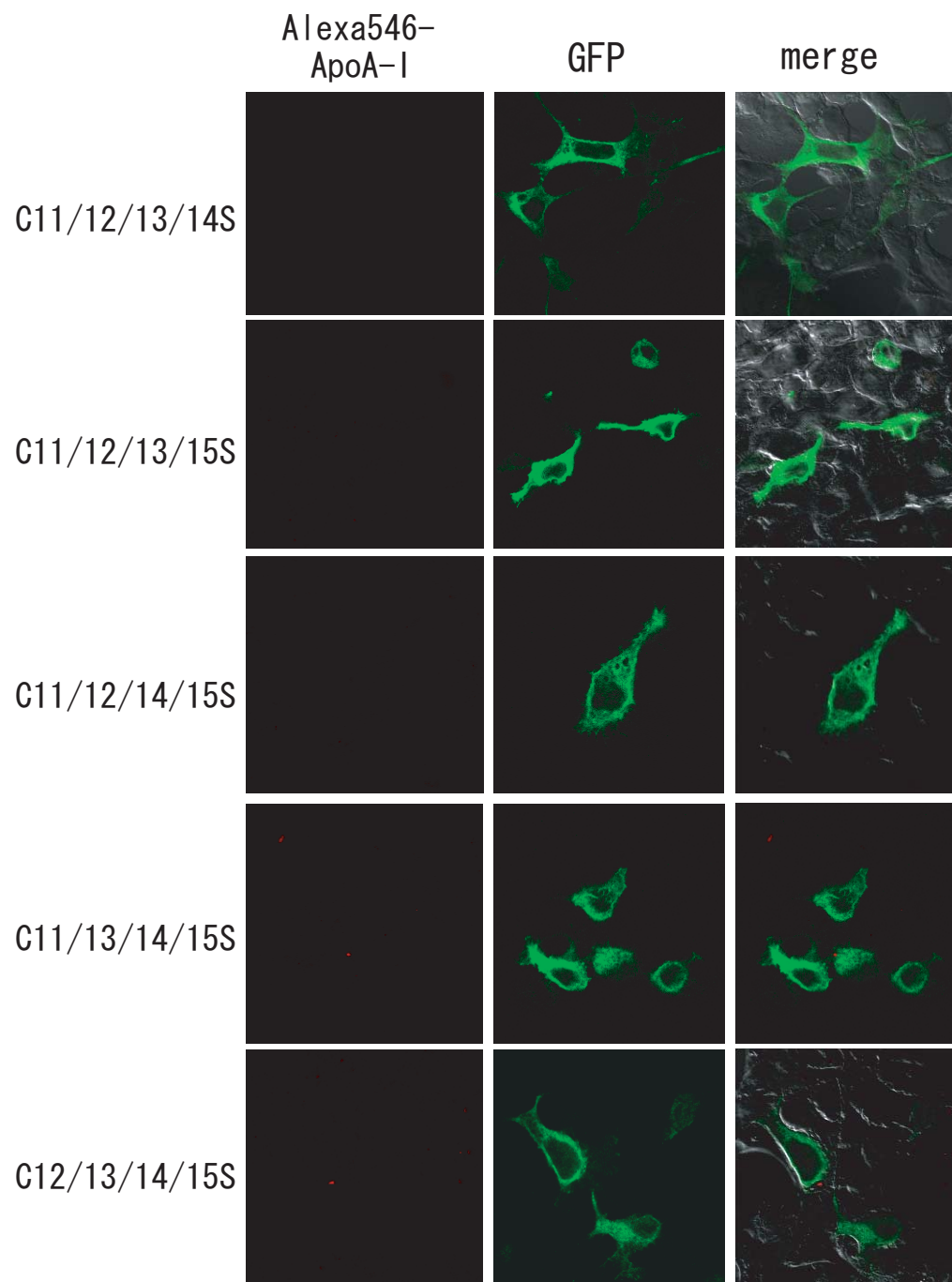
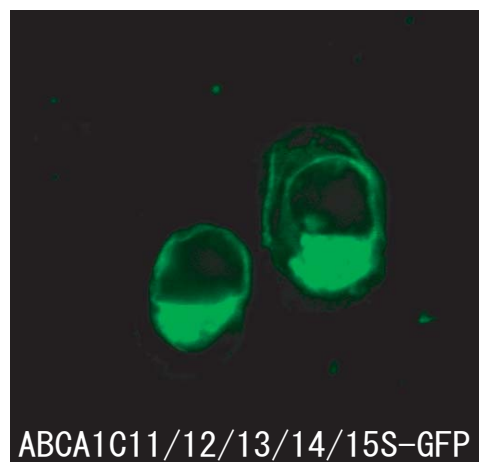
S1C	C161G	ccctatgaacaacatgaat <u>cc</u> attttccaaataaagcc
S2C	C224G	gttcaggggattatct <u>gt</u> aatgccaacaacccc
S6C	C926G	cgtattgtct <u>cc</u> gggcatcccagagg
S11C	C4253G	tcgggaccgct <u>gt</u> atggaaggaaaccc
S12C	C4286G	gacacgcct <u>cc</u> caggcaggggagg
S13C	C4388G	ccctcacctgcat <u>cc</u> cagtgtagcagc
S14C	C4394G	cctgcatgccagt <u>gt</u> tagcagcgacaaaatc
S15C	C4430G	gctgcctgtgt <u>ct</u> ccccaggggcagg

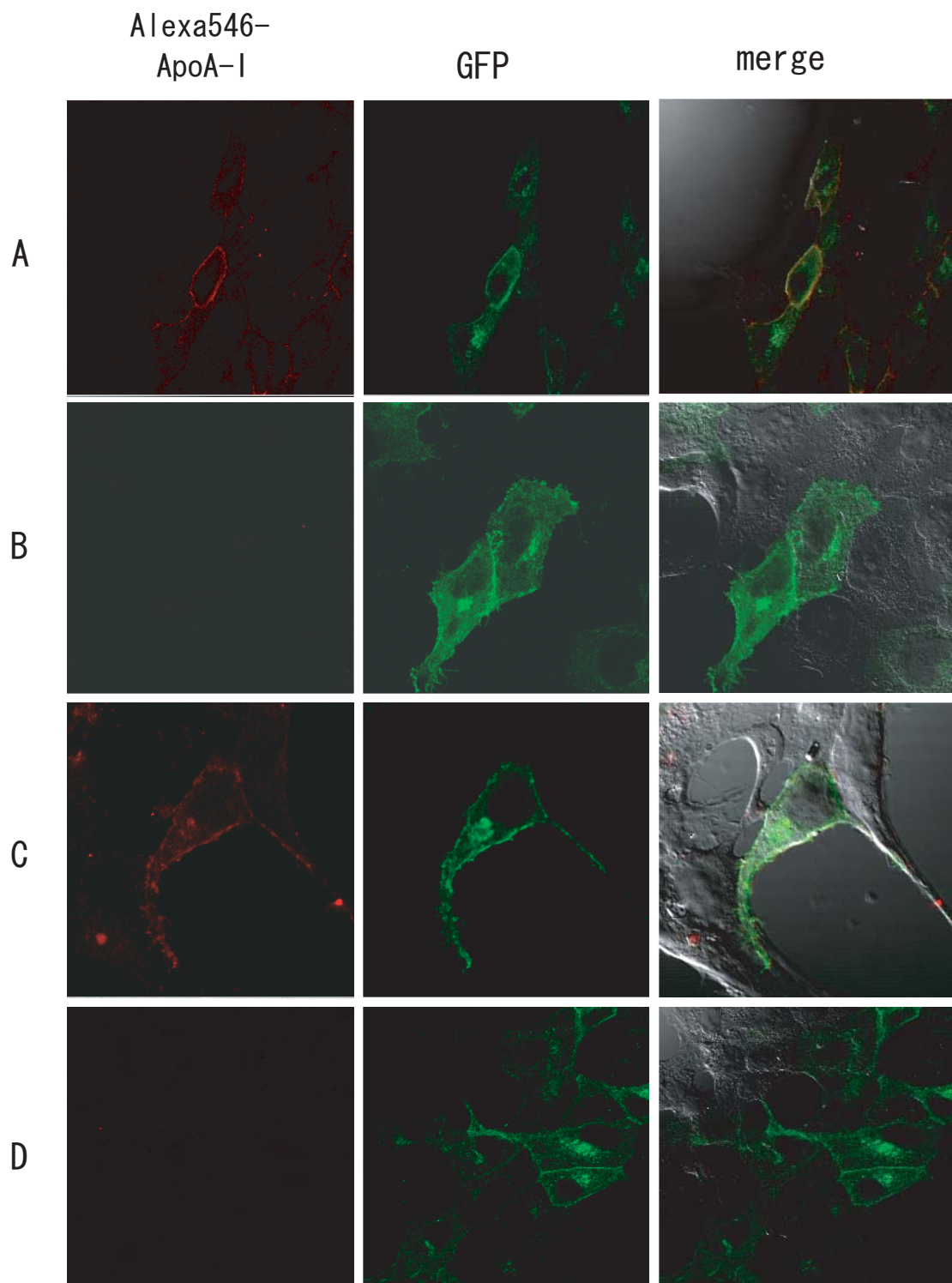


Supplementary figure 1 Hozoji, M. et al.



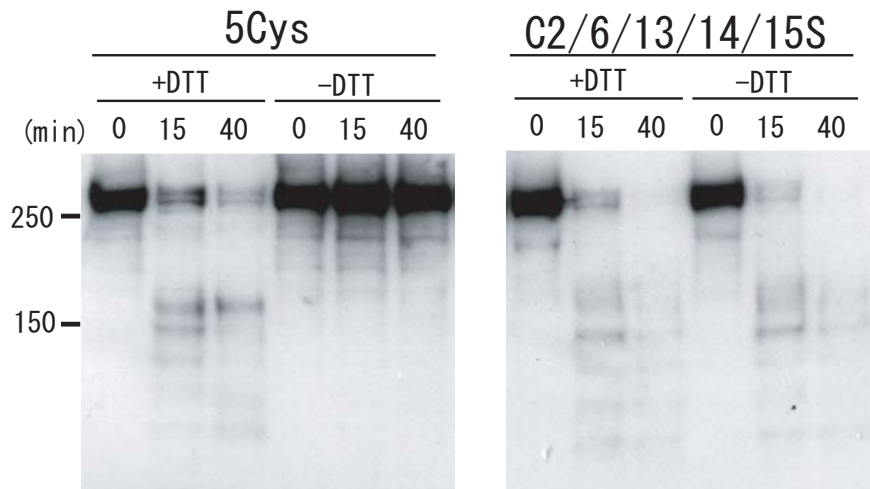
Supplementary figure 2 Hozoji, M. et al.



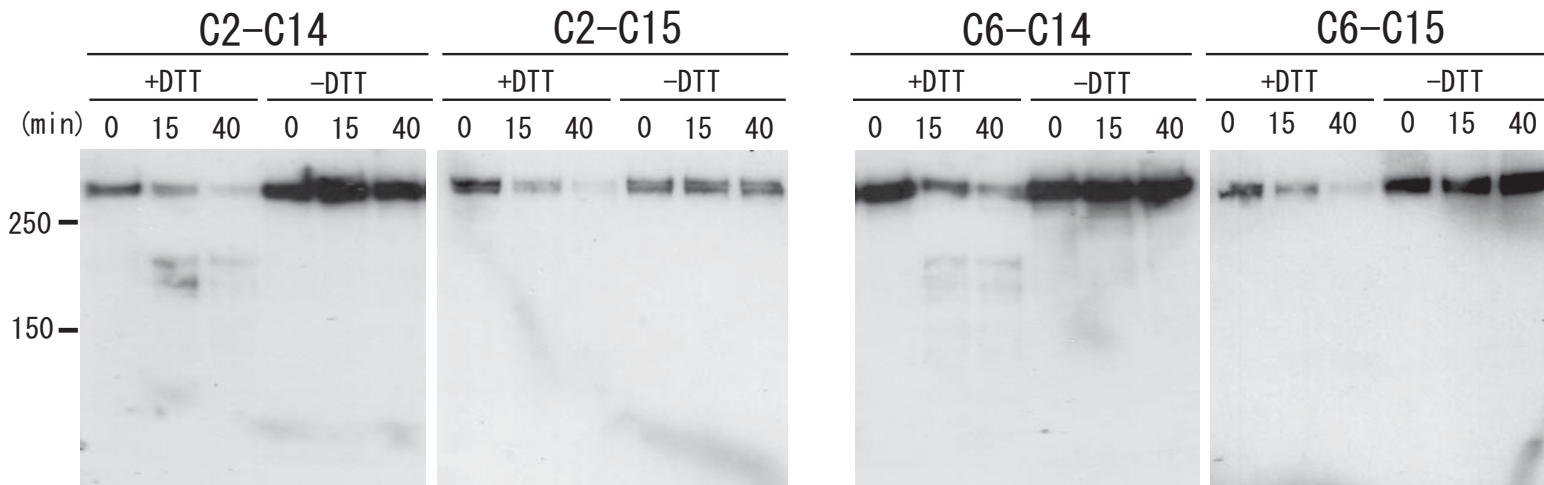


Supplementary figure 4 Hozoji, M. et al.

A



B



Supplementary figure 5 Hozoji, M. et al.