

Western blot analysis showing the expression of pCMV-Flag-LjHSP90ab1 in LJB cells and HEK 293T cells. The blot displays a prominent band at approximately 95 kD for both cell types, indicating successful expression of the recombinant protein. Molecular weight markers are indicated on the right side of the blot, ranging from 180 kD to 26 kD. The lanes are labeled 'LJB cells' and 'HEK 293T cells' at the top, and both lanes show a '+' sign at the bottom, indicating the presence of the protein.

1 33 51 213 220 338 (aa)

CP ARM arm S L P

Δ ARM arm S L P

Δ arm ARM S L P

Δ S ARM arm S L P

Δ LR(L) ARM arm S L P

Δ P ARM arm S L

Supplementary Figure S2. Protein schematic of CP and its mutants.

Supplementary Table S1. Sequences and PCR efficiencies of primers used in this study.

Genes	primer 5'	primer 3'
pCMV-Flag/pCMV-Myc-C P	GGAATTCGGGTACGCAAAG GTGAGAAGAAAT	ACGCGTCGACTTAGTTT CCCGAGTCAACCCTG
pDsRed2-C1-CP	GGAATTCGATGGTACGCAA AGGTGAGAAGAAAT	ACGCGTCGACGTTT CCCGAGTCAACCCTG
pCMV-Flag/pCMV-Myc-L jHSP90ab1	GGAATTCGGCCTGAAGAAA TGCACCAAGAG	CCGCTCGAGCGGTTA ATCAACTTCTTCCATGCG
pET-32a(+)-CP	CGGGATCCCAGGTACGCAA AGGTGAGAAGAAAT	CCGCTCGAGTGTCTGTT TCCCGAGTCAACCCTG
pET-32a(+)-LjHSP90ab1	CGGGATCCCAGATGCCTGA AGAAATGC	CCGCTCGAGTGTCTG ACCTCTTCCATGCGTGA
pCMV-Flag/pCMV-Myc-L jAKT	GCCCGAACCAATGT GGTGATTGTCAAG	GGTACTTAGGCCGTC CCACTGGCAGA
pCMV-Flag-LjHSP90-C-(540-726aa)	GGAATTCGGGGCCTG GAGCTGCCAGAGGAT	GGGGTACCTTAGTCG ACCTCTTCCATGCG
pCMV-Flag-LjHSP90-M-(284-539aa)	ACGCGTCGACCAAGAC CAAGCCCATCTGGACC	GGGGTACCTTACTC TTTGGTGACAGAAAC
pCMV-Flag-LjHSP90-MC-(221-726aa)	CTTATGCGTGACAA GGAGATCAGCGATG	GGGGTACCTTAGTC GACCTCTTCCATGCG
pCMV-Flag-LjHSP90-N-(1-221aa)	GGAATTCGGCAGATG CCTGAAGAAATGCACC	ACGCGTCGACTCACT CTTCTCCACAAACAG
pCMV-Flag-LjHSP90-NC-(1-283aa)	GGAATTCGGCAGATG CCTGAAGAAATGCACC	AACAGGGTGATG GGGTAGCCAAT
pCMV-Flag-LjHSP90-NC-(540-726aa)	TACCCCATCACCTG TTTCTGTCACCAAAGAG	GGGGTACCTTAGTCG ACCTCTTCCATGCG GATCCCCGCGGCCGCGG
pCMV-Flag-LjHSP90-NM-(1-539aa)	GGAATTCGGCAGAT GCCTGAAGAAATGCACC	TACTTACTCTTTGGTGACAGAA AC
pCMV-Flag-CP-ΔARM-(34-338aa)	GGAATTCGGCGCACT GACGCACCTGTGTCTA	ACGCGTCGACTTAGTTTCCCGA GTCAACCCTG
pCMV-Flag-CP-Δarm-(1-33aa)	GGAATTCGGGTACGC AAAGGTGAGAAGAAAT	ATTACTACGCCGACGATTGTT
pCMV-Flag-CP-Δarm-(52-338aa)	AACAATCGTCGGCGTAG TAATACCAATGACGTCC ATCTCTCA	ACGCGTCGACTTAGTTTCCCGA GTCAACCCTG
pCMV-Flag-CP-ΔLR-(1-213aa)	GGAATTCGGGTACG CAAAGGTGAGAAGAAAT	ACGCGTCGACTTG AGCGTTCCATCTCTTGAG
pCMV-Flag-CP-ΔLR-(221-338aa)	GTTCCATCTCTTGA GCCCATCATGACACAAGG	ACGCGTCGACTTAGTTTCCCGA GTCAACCCTG
pCMV-Flag-CP-ΔP-(1-220aa)	GGAATTCGGGTA CGCAAAGGTGAGAAGAAAT	GGAATTCCCATCATGACACAAG GTTCC
pCMV-Flag-CP-ΔS-(1-51aa)	GGAATTCGGGTACGCAAAGGTGAG AAGAAAT	ACGCGTCGACTGTAAGTGGATT TGGACGTGGG

pCMV-Flag-CP-ΔS-(214-38aa)	GATTTGGACGTGGGACACCTGAAG AGACTACCGCT	ACGCGTCGACTTAGTTTCCCGA GTCAACCCTG
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Supplementary Table S2. Sequences of siRNAs used in this study.

Names	Sequence
NC	5'-UUCUCCGAACGUGUCACGUTT-3'
LjHSP90ab1 siRNA1	5'-CTACTACATCACTGGTGAA-3'
LjHSP90ab1 siRNA2	5'-GAAGACCAAACAGAGTACA-3'
LjHSP90ab1 siRNA3	5'-TCGACATCATCCCTATAAA-3'