Supplemental figure legends

Supplemental figures: Results shown are representative of three separate experiments (S1C, S2, S3A) and mean values from 3 independent experiments +/- SD (S1A-B, S4).

Fig. S1. Expression of IGF-1R in myeloma lines and effect of dexamethasone
S1A. Gene expression level of IGF-1R in four cell lines
S1B. Protein expression level of IGF-1R (MFI of CD221) in four cell lines
S1C. IGF-1 protected myeloma cells against the cytotoxic effect of dexamethasone.

Fig. S2. *In vivo* effect of IGF-1 and bortezomib in a SCID mice model of human LP1 cells. 3.10^6 cells were suspended in 200 µL and injected subcutaneously into the right flank of the mice on day 0, and mice were treated once a week for 4 weeks as indicated in Material and Methods. Each group contained 5 mice. (♦): untreated controls; (▲): IGF-1 0.03 mg/kg; (■): bortezomib 0.5 mg/kg; (●) bortezomib 0.5 mg/kg + IGF-1 0.03 mg/kg.

Fig. S3. Protein expression level of Mcl1 and c-Myc in MM.1S cells exposed for 8 hours to IGF-1 (200 ng/mL) and bortezomib (1.5 nM) alone or in combination.

Fig. S4. Status of NF-κB pathway in cells exposed to IGF-1 and bortezomib
S.4A. Content of NF-κB pathway proteins in MM.1S cells exposed to IGF-1 (200 ng/mL) and bortezomib (1.5 nM) alone or in combination
S.4B. Immunocytochemistry analysis of p65 nuclear translocation in MM.1S cells. TNFα was used as a positive control. Pictures were taken after a 15 minute exposure to treatments, consisting of IGF-1 (200 ng/mL) and bortezomib (1.5 nM) alone or in combination.

Fig. S5. The level of phospho-AKT was evaluated in MM.1S and LP1 cells 10, 60 and 180 minutes after an incubation with 200 ng/ml IGF-1 (S4A) and in MM.1S cells 10 minutes after the incubation of 2 – 20,000 ng/ml IGF-1.

Fig. S6. siRNA-mediated inhibition of GADD153 protein expression. Western blot of GADD 153 protein in MM1.S cells transfected with scrambled or anti-GADD153 siRNA. MM.1S cells (2.10^6 cells/mL) were transfected with siRNAs targeting GADD153 (200 nM) using sonoporation. After 48 hours, cells were incubated with 1 µM thapsigargin for 16 hours then the level of GADD153 was analyzed by western blot. The graph represents quantification of the Western blot.