Supplementary figure legends

Fig. S1. OPN provides cells an increased resistance to UV-induced apoptosis dependent on CD44 variant isoform. Subconfluent AZ521 clones harboring control plasmid or plasmids encoding specific CD44 isoforms were cultured in serum-free medium for 24 h, and incubated with or without added OPN (10 μg/ml) for 4 h. Cells were then UV-irradiated at 90 J/m^2, and harvested for apoptosis assay by flow cytometric analyses of sub-G1 fractions at designated time.

Fig. S2. Engagement of CD44 induces lipid raft coalescence. AZ521/$CD44_{V6-10}$ cells were treated with or without OPN or Hermes-3 (H-3). The cells were lysed in chilled 1% cold Triton X-100 buffer, and lysates were subjected to sucrose gradient fractionation as described in the Materials and methods. A total of 10 fractions were collected from top to bottom. The 2-4 fractions represent the lipid rafts. The relative protein distribution of the low-density fractions (as pooled from fractions 2-4) isolated from AZ521/Mock and AZ521/$CD44_{V6-10}$ cells treated with H-3 (as filled bars), OPN-treated (as hatched bar) and untreated or control (as empty bars) cells was shown in a bar graph. Data from three separate experiments are collected and presented as mean ± SD. **, $P < 0.01$ by *t* test.

Fig. S3. Engagement of CD44 mutants that are defective in associating with lipid rafts fails to induce lipid raft reorganization. Individual AZ521/CD44 cell clones were treated with IgG or H-3 mAb as described. The cells were lysed in chilled 1% cold Triton X-100 buffer, and lysates were subjected to sucrose gradient fractionation as described. A total of 10 fractions were collected from top to bottom. The relative protein distribution of the low-density fractions (as pooled from fractions 2-4) was shown in a bar graph. Data from three separate experiments are presented as mean ± SD. **, $P < 0.01$ by *t* test.

Fig. S1

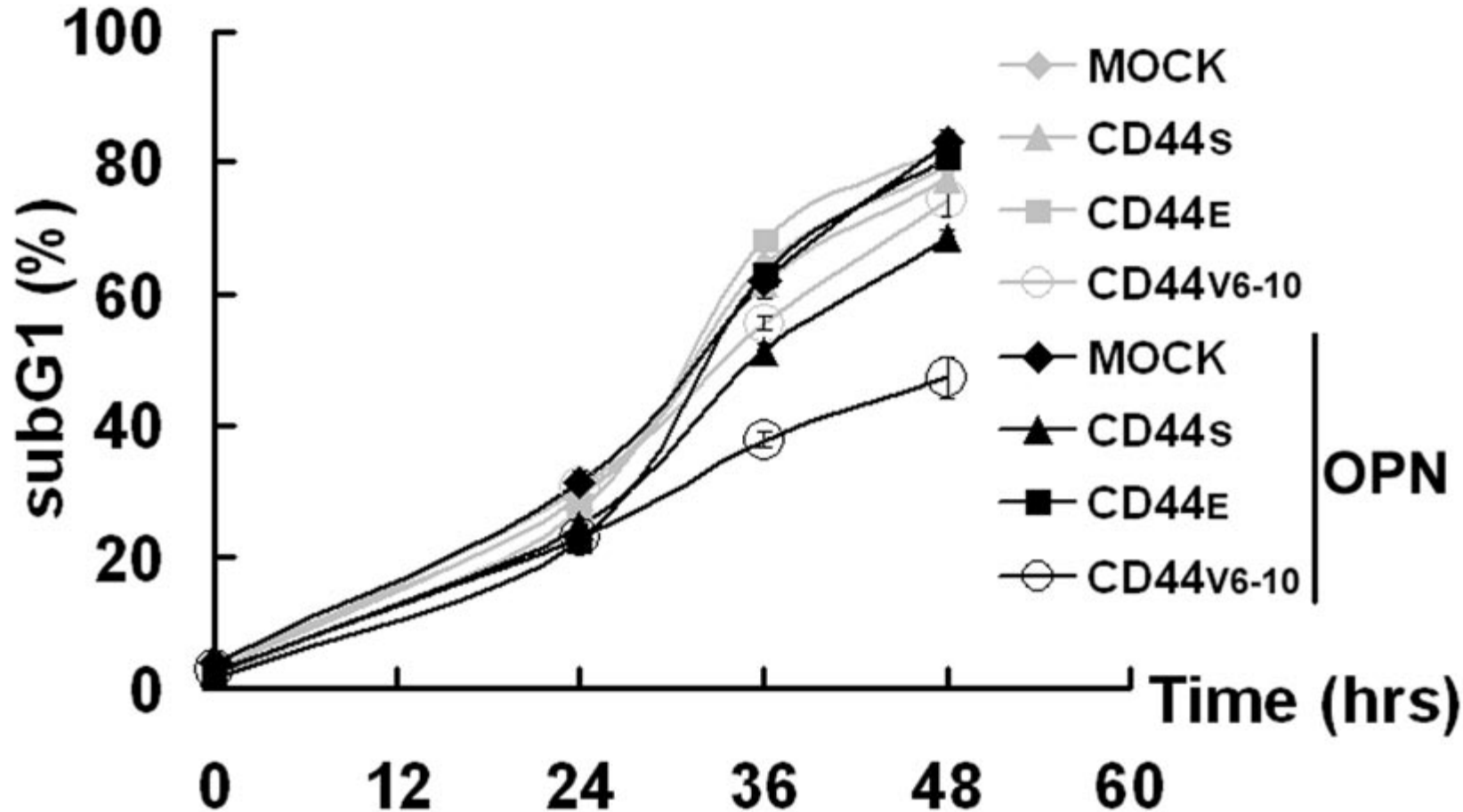

100
80
60
40
20
0
subG1 (%)
MOCK
CD44S
CD44E
CD44V6-10
MOCK
CD44S
CD44E
CD44V6-10
OPN
Time (hrs)
0
12
24
36
48
60

Fig. S2

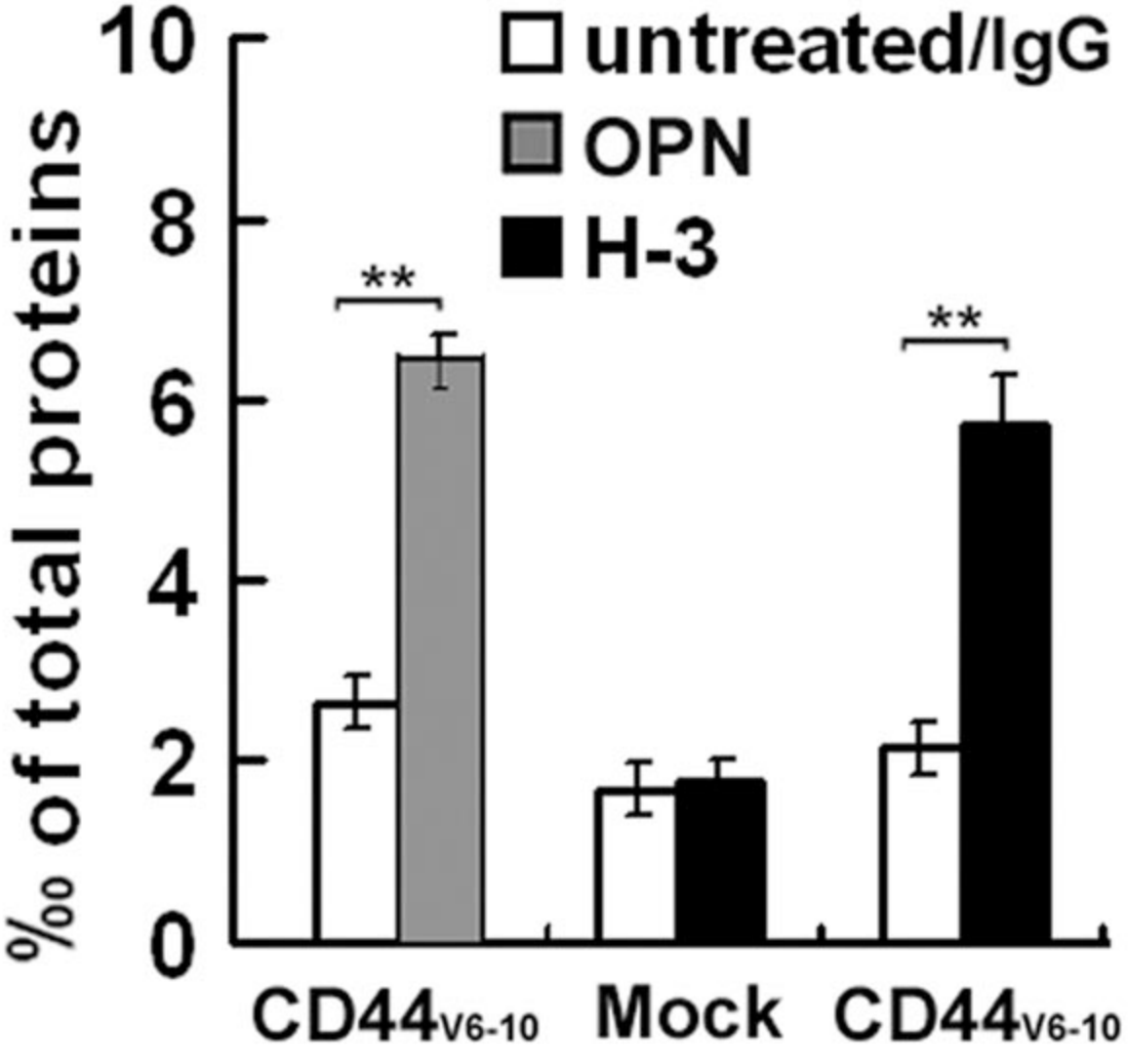
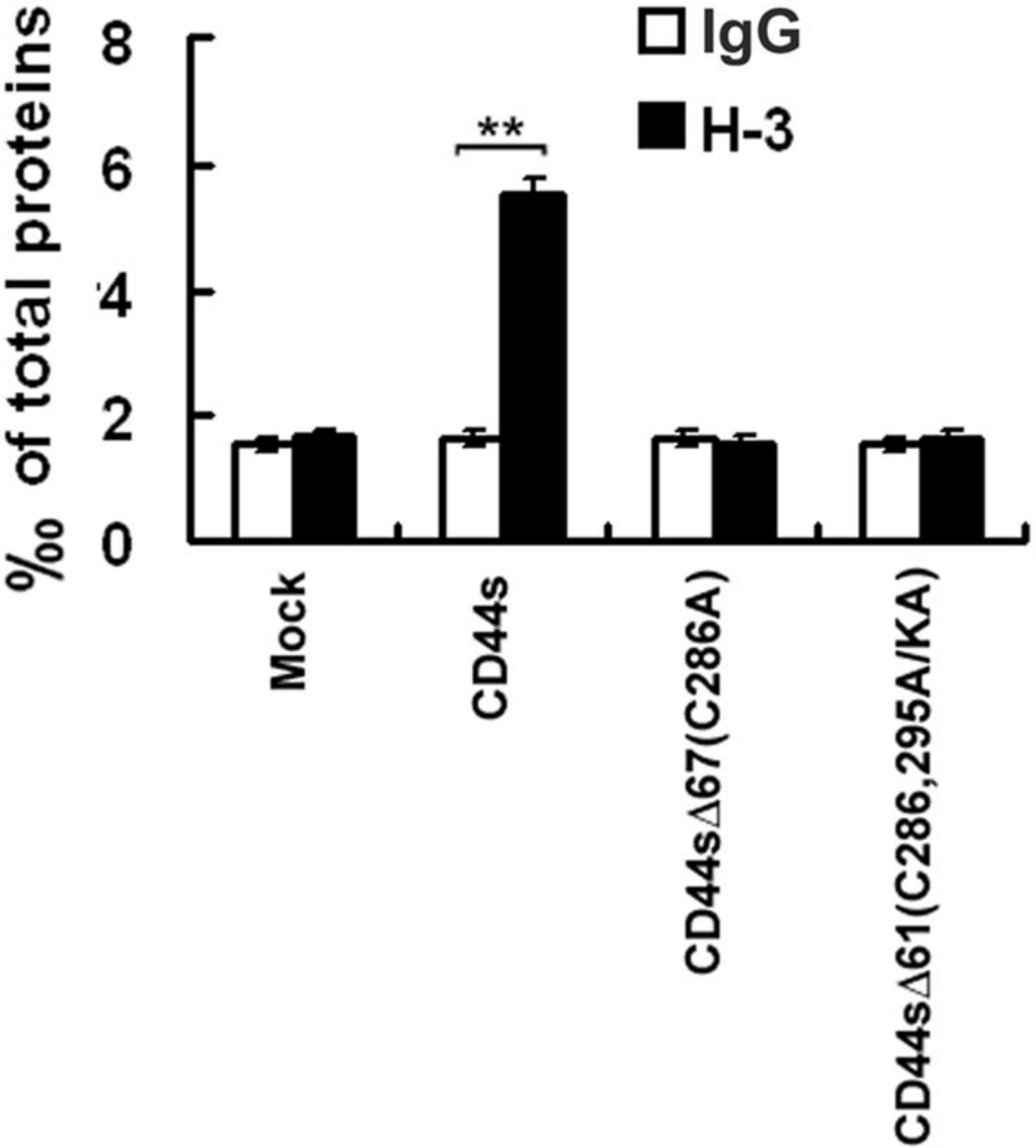

10
8
6
4
2
0
‰ of total proteins
untreated/IgG
OPN
H-3
**
**
CD44V6-10
Mock
CD44V6-10

Fig. S3


‰ of total proteins
0
2
4
6
8
IgG
H-3
**
Mock
CD44s
CD44sΔ67(C286A)
CD44sΔ61(C286,295A/KA)