

Supporting Information

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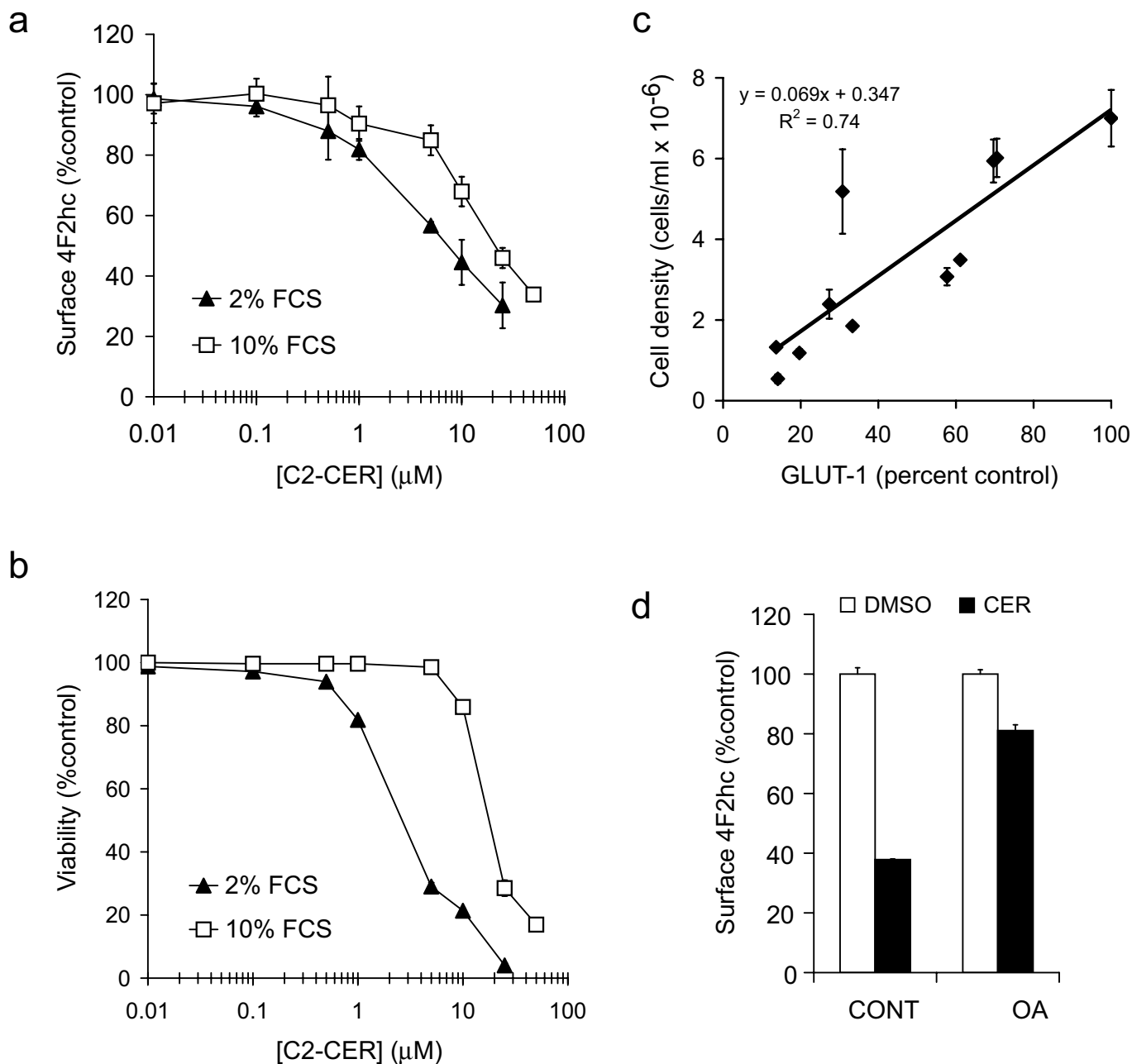


Fig. S1. Ceramide induces intracellular nutrient stress by causing nutrient transporter protein downregulation. (a) Surface expression of 4F2hc was evaluated by flow cytometry 8 h after FL5.12 cells were treated with C2-cer in media containing either 2% or 10% FCS. Error bars, SD. (b) Viability of the cells in a was determined at 24 h. Error bars, SD. (c) Independent FL5.12 clonal lines stably expressing one of four different shRNA targeting GLUT-1 were plated at 25,000 cells/ml and cell density was measured 4 days later (error bars, SEM). GLUT-1 expression level was quantified by Western blot using an Odyssey Infrared Imaging System. (d) FL5.12 cells were treated with DMSO or 50 μM C2-cer in the presence or absence of 1 μM okadaic acid (OA) and 4F2hc expression measured at 4 h. Error bars, SD.

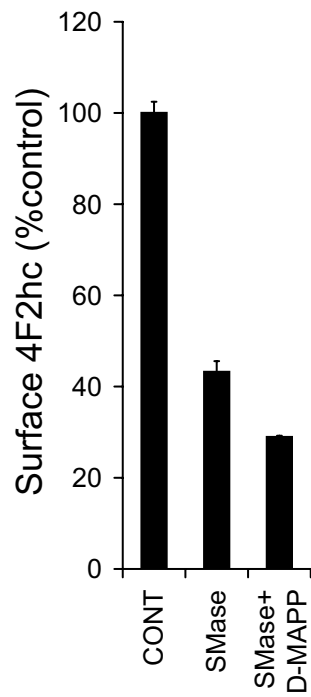


Fig. S3. Ceramide produced from sphingomyelin degradation causes nutrient transporter downregulation. Surface expression of 4F2hc by flow cytometry in cells left untreated (CONT) or incubated for 2 h with 1 U/ml of bacterial SMase in the presence or absence of 10 μ M D-MAPP. Error bars, SD.