

Enhanced Hypothalamic Leptin Signaling in Mice Lacking Dopamine D2 Receptors

Kyu Seok Kim^{1*}, Ye Ran Yoon^{1*}, Hyo Jin Lee^{1*}, Sehyoun Yoon^{1*}, Sa-Yong Kim¹, Seung Woo Shin¹, Juan Ji An^{1, 2}, Minseon Kim³, Se-Young Choi⁴, Woong Sun⁵ and Ja-Hyun Baik¹

Supplemental Data

LEGENDS FOR SUPPLEMENTAL FIGURE

Supplemental Figure S1. Effects of haloperidol on leptin effect in WT and D2R^{-/-} mice

Either leptin or haloperidol or together with them were administrated intracerebroventricularly into 10~12 week-old WT and D2R^{-/-} mice that had been fasted for 14hr. Cumulative food intake, body weight and activity were measured at 2h (A), 6hr (B) and 24hr(C) after injection (n=4~8 for each WT and D2R^{-/-} groups). All values are expressed as means \pm SEM (*P, †P <0.05, **P, ††P <0.01 and ***P, †††P < 0.001, †P : Versus saline within same group, *P: Between genotype.

Supplemental Fig. S2. Effects of D2R activation on leptin-mediated pSTAT3 induction in the arcuate nucleus(ARC) of hypothalamus from WT and D2R^{-/-} mice (with lower magnification); Representative immunofluorescence images of leptin-induced phosphorylation levels of pSTAT3 with or without quinpirole treatment in the ARC region of WT (A) and D2R^{-/-} mice(B) were taken at x200 magnification.

A *Fig. S1*

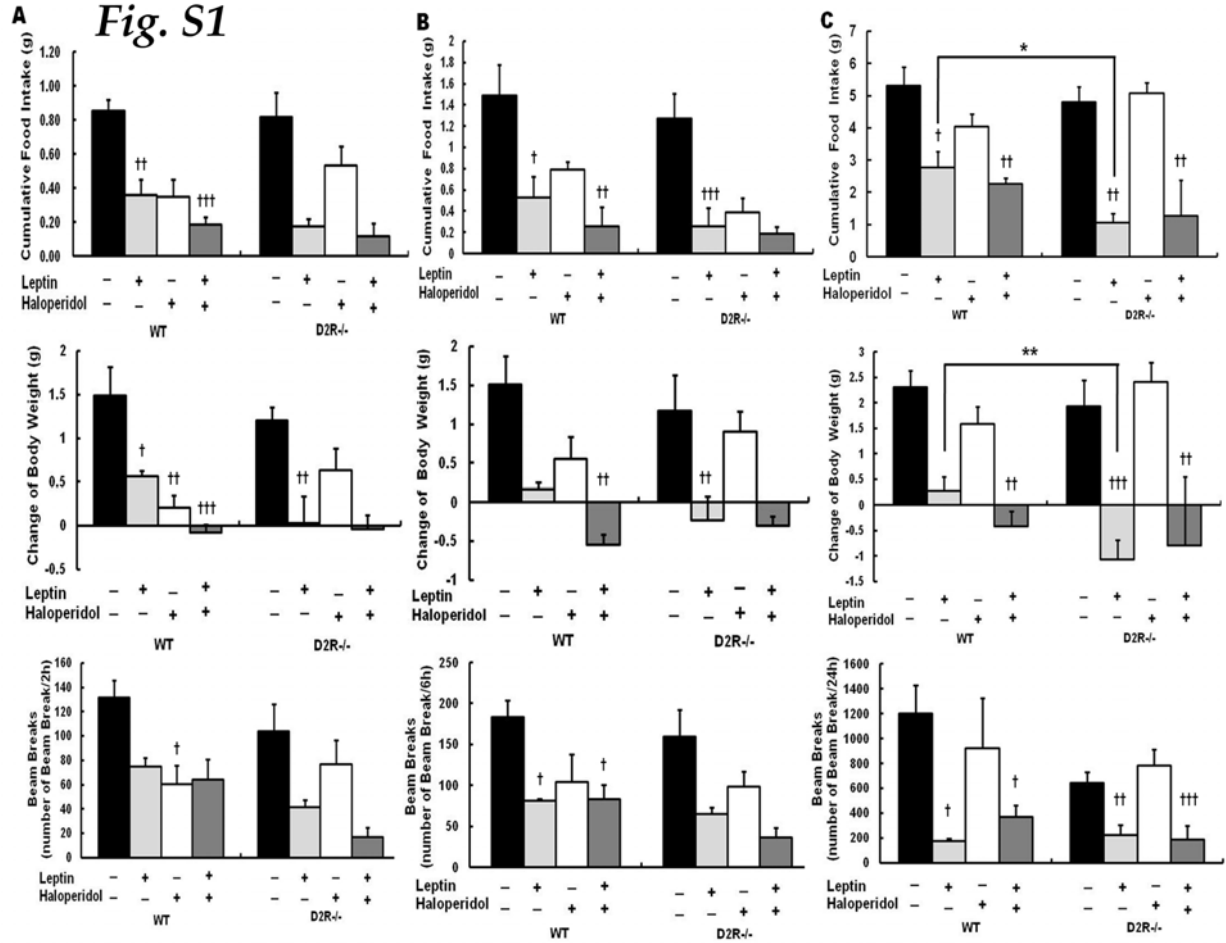


Fig. S2

