Supplemental Legends

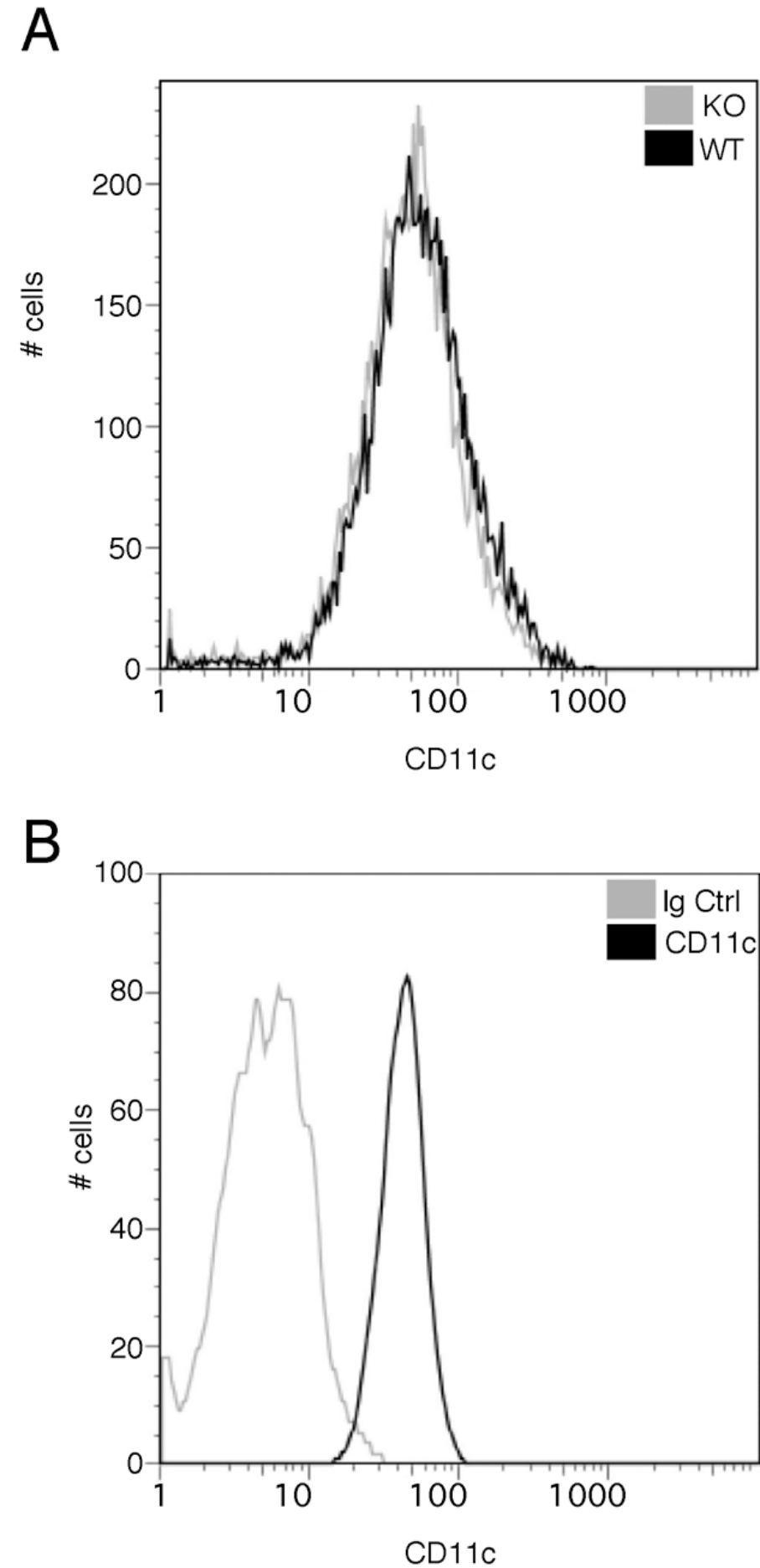
SUPPLEMENTAL FIGURE 1. CD11c expression level in differentiated wild type and *HPK1*$^{-/-}$ bone marrow cells. (A) Wild type and *HPK1*$^{-/-}$ bone marrow cells were grown in complete DC medium plus 20 ng/ml rmGM-CSF for 10 days. LPS-stimulated wild type and *HPK1*$^{-/-}$ bone marrow cells were stained with anti-murine CD11c mAb and subjected to FACS analysis. Histogram tracings depict the CD11c expression levels in wild type and *HPK1*$^{-/-}$ BMDCs. (B) Histogram tracings depict differentiated WT BMDCs stained with CD11c mAb, compared to the IgG control.

SUPPLEMENTAL FIGURE 2. Enhanced MLR response to *HPK1*$^{-/-}$ splenic DCs. DCs were isolated from the spleens of either WT or *HPK1*$^{-/-}$ mice. After RBC lysis, $CD11c^{+}$ DCs were isolated from splenocytes via positive selection, using anti-CD11c-coated magnetic beads. DCs were then matured with 1ug/mL LPS as described above, then irradiated prior to culture with allogeneic SJL/J T cells. 1 μCi ^{3}H-thymidine was pulsed for 20 hours before harvest. T cells number is a constant $2x10^{5}$ cells per well. Histogram represents the MLR response by SJL/J T cells to WT (black bar) and KO (white bar) splenic DCs.

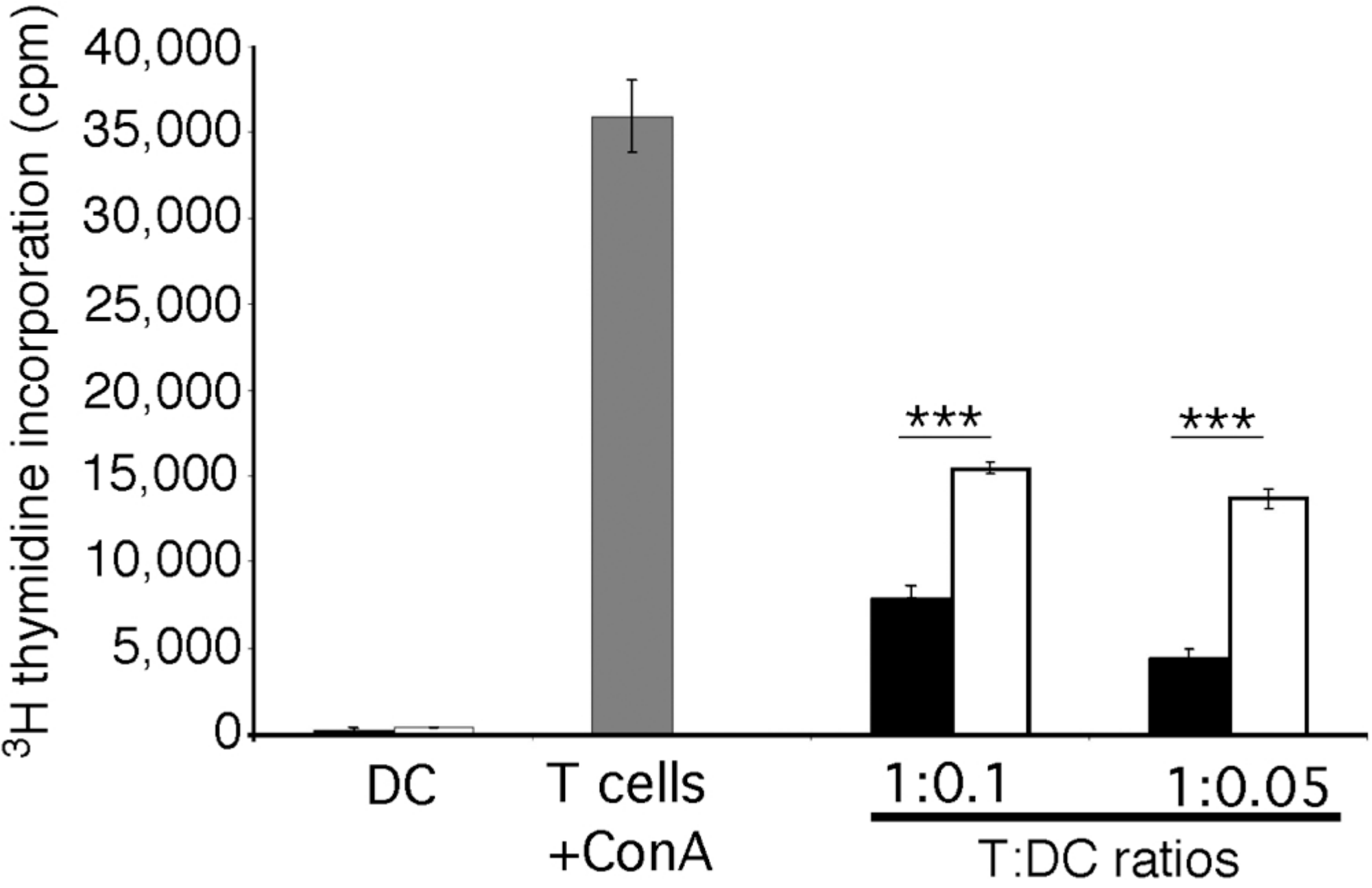
SUPPLEMENTAL TABLE 1. Enhanced T cell activation *in vivo* by *HPK1*$^{-/-}$ antigen presenting cells. (Panels 1-4) OVA was injected into the footpad of wild type (WT-OVA) or *HPK1*$^{-/-}$ (KO-OVA) mice at the same time as $5x10^{6}$ CFSE-labeled OT-1 T cells were injected intravenously. Popliteal lymph nodes were removed after 48 hours. The amount of OT-1 proliferation is measured by the dilution of the CFSE fluorescence signals acquired by FACS. WT-Ctrl and KO-Ctrl represent the control response of WT or KO animals injected with OT-1 T cells in the absence of OVA antigen. (Panels 5-8) Non-stimulated WT or KO DCs (WT-iDC and KOiDC) or six hour LPS and OVA-stimulated (WT-OVADC and KO-OVADC) WT or KO BMDCs

were injected into the footpad of wild type C57BL/6 mice. At the same time, $5x10^6$ CFSE-labeled OT-1 T cells were injected IV. Popliteal lymph nodes were removed after 48 hours. The amount of OT-1 T cell proliferation is measured by CFSE dilution by FACS analysis of popliteal cells. This table represents the results of one experiment from each group. Experiments of both groups were individually repeated at least 3 times.

Supplemental Figure 1



Supplemental Figure 2



Supplemental Table 1

		M1-3	M4-6	M7-8
1	**WT-Ctrl**	98.1	1	0.9
2	**WT-OVA**	87.2	7.2	5.6
3	**KO-Ctrl**	97.8	1.5	0.7
4	**KO-OVA**	9.2	84.8	6
5	**WT-iDC**	97.2	2.8	0
6	**WT-OVADC**	54.2	11.3	34.5
7	**KO-iDC**	96.8	0	3.1
8	**KO-OVADC**	7.7	26.9	65.4