Title: Phosphorylation of p53 at threonine 155 is required for Jab1-mediated nuclear export of p53

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**Supplementary Figure legends**

**Supplementary Fig. 1. Subcellular localization of p53 S149D, T150E, and S149D/T150E/T155E (TM) mutants.** (A) H1299 cells were transfected with the plasmids expressing HA-p53 and the increasing amount of Myc-Jab1 for 24 h and then treated with 50 μM Curcumin for 6 h. Protein levels were determined by western blot (WB) using anti-phospho-p53 (Thr155), HA, or Myc antibody. Actin was used as a loading control. (B) H1299 cells were transfected with the plasmids expressing HA-p53 wild-type, S149D, T150E, or S149D/T150E/T155E (TM) mutants for 24 h. The cells analyzed by fluorescence microscopy using anti-HA to visualize p53 subcellular localization. The cells were counterstained with DAPI to visualize the nuclei. Representative images are shown in the left panel. A total of 200 cells expressing HA-p53 were counted according to their localization and the result are presented in the right panel (N: Nucleus, N/C: Nucleus and cytoplasm).

**Supplementary Fig. 2. Curcumin prevents Jab1-mediated cytoplasmic localization of p53 wild-type, S149D, and T150E, while it could not that of p53 T150E and S149D/T150E/T155E (TM) mutants.** H1299 cells were transfected with the plasmids expressing HA-p53 wild-type, wild-type, S149D, T150E, T155E or S149D/T150E/T155E for 24 h, then treated with or without 50 μM Curcumin for 6 h. The cells analyzed by fluorescence microscopy. Representative images are shown, and summarized in the Fig. 2F.

**Supplementary Fig. 3. p53 T155E is localized both in nucleus and cytoplasm in the absence of Mdm2, and its cytoplasmic localization is further enhanced by ectopic Hdm2 expression.** p53/Mdm2 double knockout (DKO) MEFs were transfected with the plasmid expressing HA-p53 T155E alone or with Hdm2 for 24 h. The cells analyzed by fluorescence microscopy. Representative images are shown, and summarized in the right panel.
Supplementary Fig. 3. Jab1 suppresses the transcriptional activity of p53 independent of subcellular localization

(A, B) H1299 cells were co-transfected with p53 regulatory gene promoter (PG13-luc) together with a combination of plasmids expressing HA-p53 mutants and Myc-Jab1. The luciferase activities were measured 48 h after transfection using dual-luciferase kit. Three independent experiments were carried out, and the S.D. are indicated by error bars. Renilla luciferase was used as a transfection control.