

Supplemental Information Titles and Legends

Figure S1. HSPC117 is detected in the nucleoplasm, but not PNCs.

(A-F) HEK293 cells expressing exogenous HSPC117 were subjected to indirect immunofluorescence analysis using antibodies against HSPC117 (A and D) and PTBP1 (B and E) at magnification of 25 $\times$ and 63 $\times$. Overlays are seen in C and F. Bar equals 20 μ m.

(G and H) Digital magnifications of cells seen in E and F. White arrowheads point to PNCs. Yellow arrowheads in G and H depict the same points in E and F.

Figure S2. Colocalization of HSPC117 with mitochondria.

(A-C) HeLa cells, which were synchronized to the G₁/S phase by hydroxyurea, were analyzed by indirect immunofluorescence analysis using antibodies against HSPC117 (A and D) and mitochondria (B and E), at magnifications of 25 $\times$ and 63 $\times$, as indicated. Overlays are seen in C and F.

(G-O) HeLa cells, which were synchronized to the G₁/S phase by hydroxyurea, were analyzed by indirect immunofluorescence analysis using antibodies against HSPC117 (G, J and M) and mitochondria (H, K and N) at magnifications of 25 $\times$, as indicated. Overlays are seen in I, L and O.

Figure S3. HSPC117 does not preferentially stain the nucleoplasm in cells treated with the selective Pol III inhibitor ML60218.

HeLa cells were synchronized to G₁/S phase by the use of hydroxyurea. Washed cells were then left untreated or treated with Pol III inhibitor ML60218 for 6 h. Control and treated cells were subjected to indirect immunofluorescence analysis of HSPC117 (left column) and RPC3 (middle column) at the indicated time points. The overlays of the two immunostainings are seen in the right column. Control, asynchronized cells are shown in A, G and M. Bar equals 20 μ m.

Figure S4. Number of PNCs increases in S and G₂ phases

(A and B) HeLa cells were treated with hydroxyurea for 16 h. Cells were then washed and harvested in 5 and 12 h (A and B, respectively). Synchronized cells were subjected to indirect immunofluorescence analysis using an antibody against PTBP1. The numbers of PNCs in cells at 5 and 12 h are shown.

Figure S1

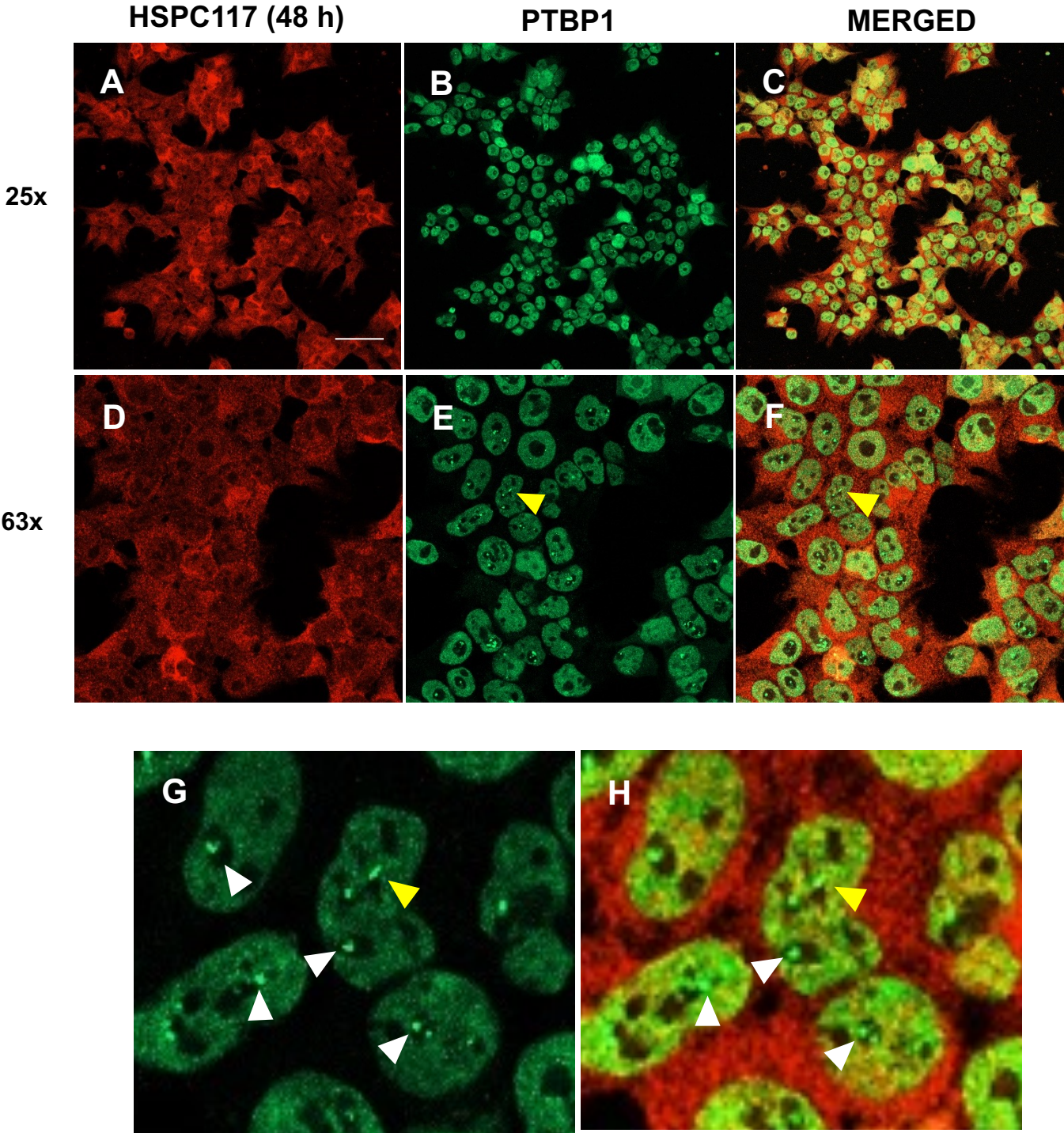


Figure S2

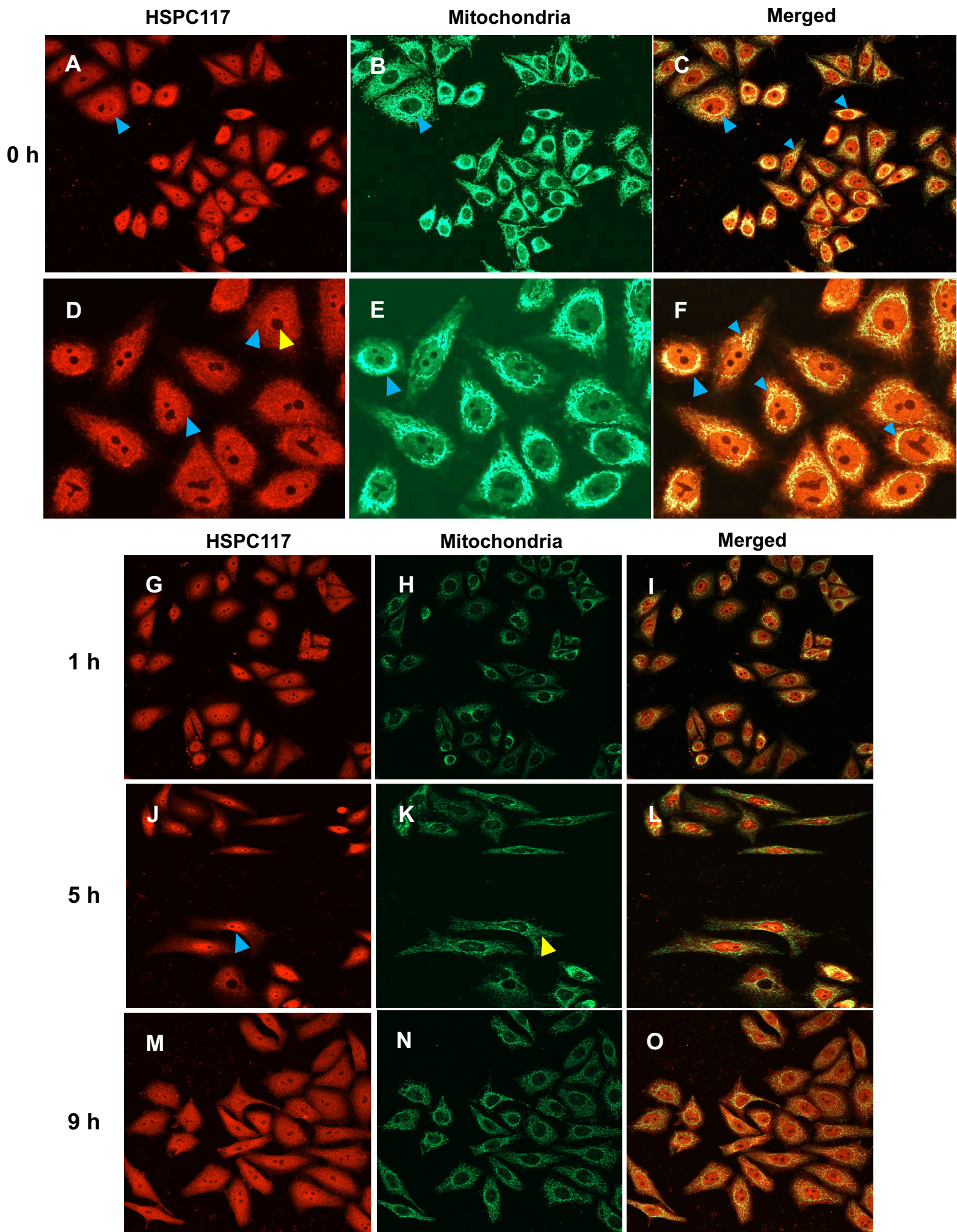


Figure S3

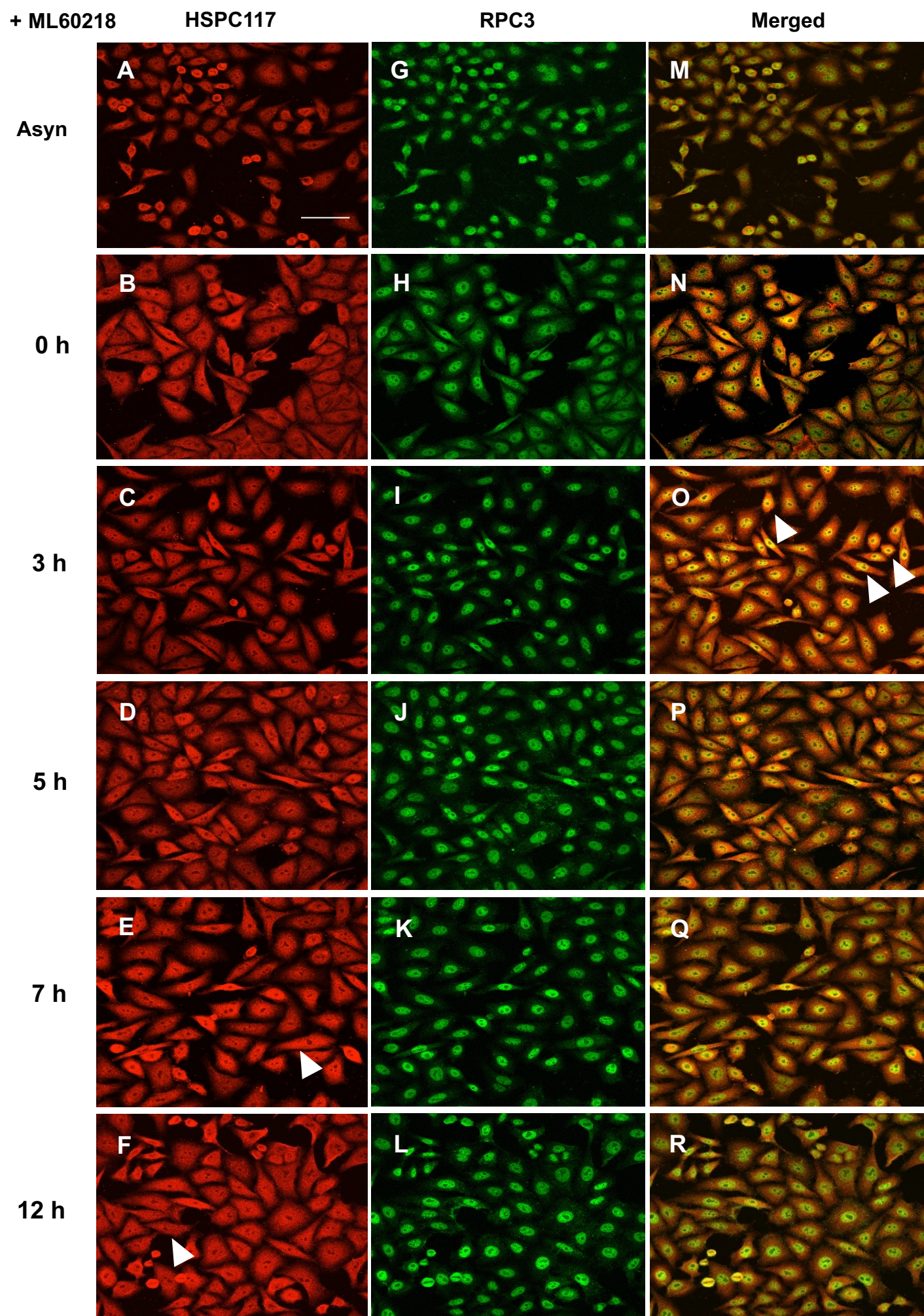


Figure S4

PTBP1

