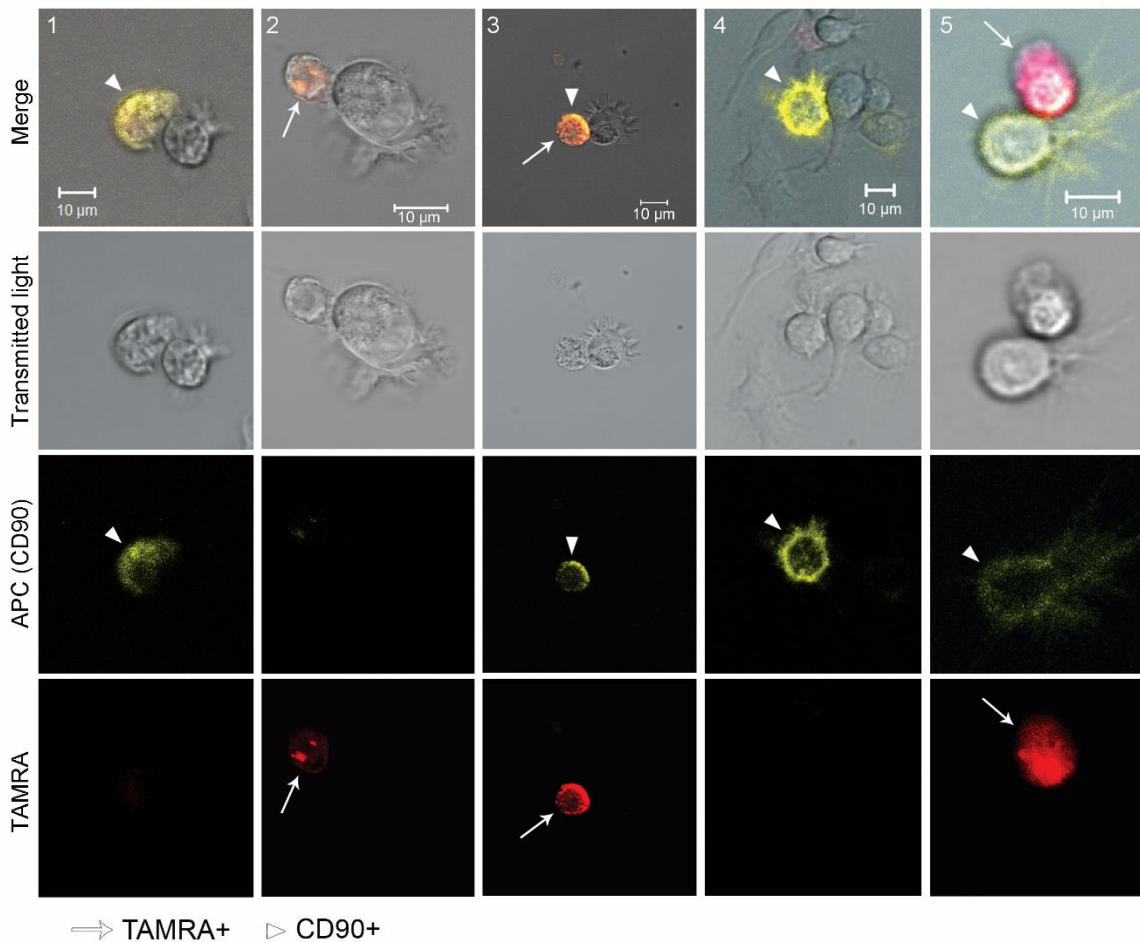
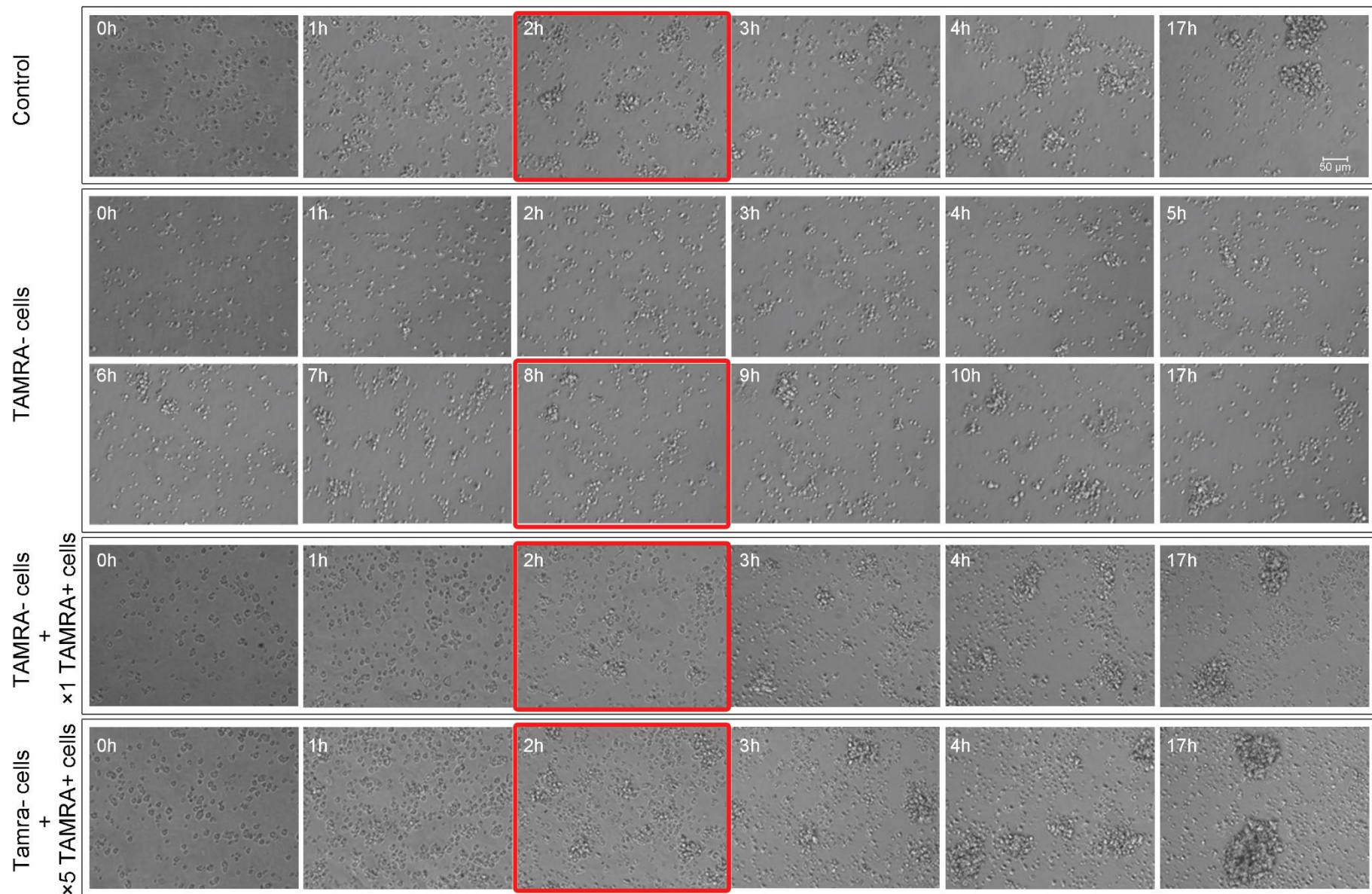


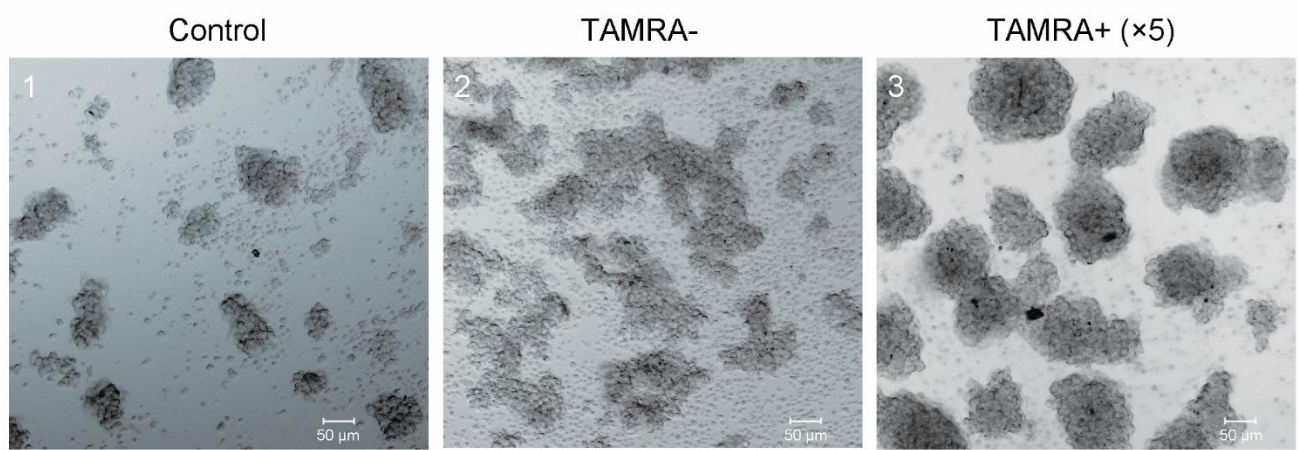
**Fig. S1.** Schematic representation of the relationship of CD20+, TAMRA+ and CD133+ cells located in the EBV+ LCL spheres.



**Fig. S2.** Dual analysis of cells with regard to their ability both to bind antibodies to the surface marker CD90 and to internalize TAMRA-DNA in *ex vivo* culture. **1-5** – Different cells in direct contact. TAMRA – internalized exogenous DNA signals; APC – marker of CD90+ (mesenchymal stem cells); Merge – combined image of all channels.



**Fig S3** . The rate of sphere formation in EBV+ lymphoblastoid cell line after sorting. The initial stage of cell aggregation, after which spherical 3D structures begin to appear, indicated by a red frame.



**Fig. S4.** Variants of sorted EBV+ LCL cells aggregation after 17 hrs cultivation.