



**Figure S5. NK cell cytotoxicity against E0771-LG cells.** (A) Scheme of the *in vitro* assay to investigate NK cell induced cancer cell apoptosis. E0771-LG cells expressing red fluorescent protein (mKate) in the nucleus were seeded ( $1 \times 10^3$ /well) into 96-well plates coated with basement membrane extract (Geltrex, Gibco), and co-cultured with NK cells isolated from the spleen of C57BL/6 mice (EasySep Mouse NK Cell Isolation Kit, Stemcell Technologies) at different effector (E): target (T) ratio in the presence of 1000 U/mL IL-2 (Peprotech) and green fluorogenic caspase-3 substrate (NucView488, Biotium). The cultured cells were imaged by IncuCyte Zoom Live-Cell Analysis System (Essen Bioscience) for 48 hours, and the number of apoptotic cancer cells (large red/green overlapping nuclei) were counted using the IncuCyte S3 software. (B) Apoptosis of E0771-LG cancer cells induced by NK cells ( $n = 4$ ). Data are expressed as ratio of apoptotic cancer cells compared to that in the absence of NK cells (E:T=0:1). \* $P < 0.01$  versus no-NK control (E:T=0:1), Student's t test. Results are means  $\pm$  SEM.