

## **Supplementary materials & methods**

### *Cell cycle phase-dependent death*

To analyze the cell cycle phase-dependent cell death, 5 µg/ml of Hoechst 33258 stain (Sigma-Aldrich) was added to the medium for 10 min. Then cells were treated with trypsin and washed twice in Annexin buffer (Sterofundin solution with 1% Hepes), followed by a 30 min incubation with an AnnexinV-FITC conjugate (Invitrogen® Life Technologies, Darmstadt, Germany). Cells were then analyzed by fluorescence-activated cell-sorting (LSRII, BD Bioscience, Heidelberg, Germany ) and statistical evaluation was performed using *Flow Jo* software (Tree Star, Inc., OR, USA).