

## Figure 4

## Reconstitution of ROS generation in LD thylakoids by Trxm, NTRC and NADPH.

Light-induced hydroxyl radical formation in SD and LD thylakoids is shown by indirect spin trapping with 4-POBN. Thylakoid membranes (20 µg ml<sup>-1</sup>) were illuminated for 2 min (500 µmol quanta m<sup>-2</sup>s<sup>-1</sup>) before detection of the radical. When indicated, 200 µM NADPH, 0.3 µM Trx m4 and 0.3 µM NTRC were added to the assay before starting the illumination. All EPR signals were normalized to the signal of SD thylakoids without addition (100%). Grey bars: SD, white bars: LD. Mean values are shown (n=3; \*, *P* <0.05 (comparison with LD no protein added) according to Tukey test.