



Figure S1: Influence of β -TrCP abundance on additional established measures of the transient dynamics of nuclear NF- κ B upon TNF stimulation.

Dependence of the area under curve (A), signal amplitude (B) and signaling time (C) of nuclear NF- κ B upon TNF stimulation assuming β -TrCP concentrations between $5 \cdot 10^{-5}$ nM and 2 nM. The respective definitions of the measures are shown on the right side of each panel. Signal amplitude can be interpreted as a measure of the magnitude of NF- κ B activation, while signaling time characterises temporal aspects of the NF- κ B response to TNF stimulation. The area under curve is a combination of magnitude and temporal aspects; it is referred to as time-integrated activity or accumulative response.