**Suppl. Fig. 1.** Tyrosine phosphorylated Abl kinases co-precipitate with ERK5. (A) Bcr/Abl-positive MEG-01 and K562 cells were treated with 10 µM of the Abl kinase inhibitor Imatinib for one hour and lysed. Anti-ERK5 immunoprecipitates (IP) and crude cell lysates (CL) were analyzed by anti-Phosphotyrosine (P-Tyr) and anti-ERK5 immunoblot. (B) HEK 293T cells were transfected with expression constructs for VSV-tagged versions of ERK5 WT, AEF and KM. Anti-VSV immunoprecipitates and crude cell lysates were analyzed by anti-phosphotyrosine (P-Tyr), anti-Abl and anti-ERK5 immunoblot. (C) HEK 293T cells were transfected with a c-Abl expression construct or empty vector. Lysates were incubated with preimmune serum, anti-ERK5 and a control antibody. The amounts of precipitated ERK5 and co-precipitating Abl were monitored by anti-ERK5 and anti-Abl immunoblot, respectively.
Suppl. Fig. 2. Analysis of expression levels of Bcr/Abl and ERK5. (A) the expression level of Bcr/Abl and Tubulin of Bcr/Abl-positive and Bcr/Abl-negative leukemia cells were analyzed by anti-Abl and anti-Tubulin immunoblot of crude cell lysates. (B) crude cell lysates from parental Rat-1 fibroblasts and v-abl transformed Rat-1 cells were immunoblotted for ERK5 and Tubulin. Below the lanes the relative ratio of ERK5/Tubulin is given.
Suppl. Fig. 3. ERK5 possesses basal activity. (A) COS-7 cells were transfected with expression constructs of HA-ERK5 WT and non-activatable AEF mutant. If indicated cells were incubated with 50 µM of the MEK inhibitor PD98059 for one hour. Anti-HA immunoprecipitates were subjected to in vitro kinase reactions. Auto-phosphorylation and amounts of precipitated HA-ERK5 were visualized by autoradiography (\(^{32}\)P-ERK5) and anti-HA immunoblot, respectively. (B) COS-7 cells were transfected with expression constructs for HA-ERK5 WT, AEF and kinase dead KM mutant. Anti-HA immunoprecipitates were subjected to in vitro kinase reactions. GST-MEF2C was included as substrate and its phosphorylation was assessed. Data represents three independent experiments + SD. The first column represents the background phosphorylation caused by kinases unspecifically co-precipitating with beads and anti-HA antibody from cells transfected with empty vector.