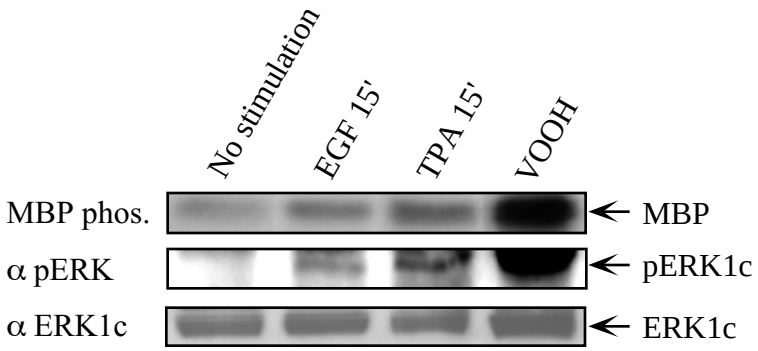

Fig. 11. Detection of ERK1c activation by in-vitro kinase assay and anti pERK Ab: Serum-starved HeLa cells were stimulated with EGF (50 ng/ml), TPA, (250 nM) or VOOH (100 µM vanadate and 200 µM H_2O_2). The cells were then lysedand ERK1c was immunoprecipitated using the anti ERK1c Ab. Activity of the immunoprecipitated ERK1c was determined by in-vitro kinase assay against MBP (upper panel). Level of ERK1c phosphorylation was determined with anti-pERK Ab (middle panel). Amount of immunoprecipitated ERK1c was detected by immunoblot with the anti ERK1c Ab (lower panel).

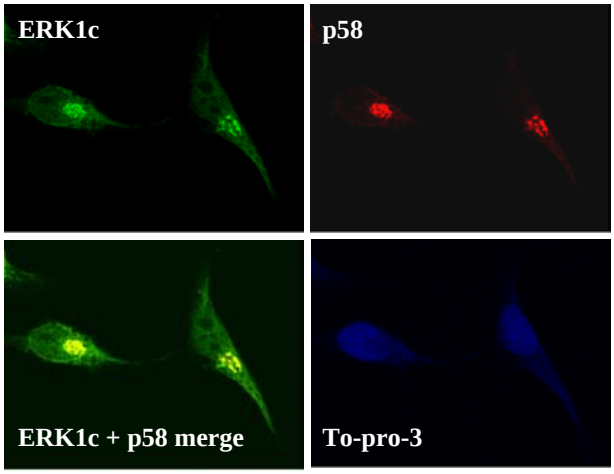

Fig. 12. Golgi localization of ERK1c (1): HeLa cells were stained with anti ERK1c and anti p58 Abs and with To-Pro-3 (nuclear marker). The slides were visualized by a confocal microscope.

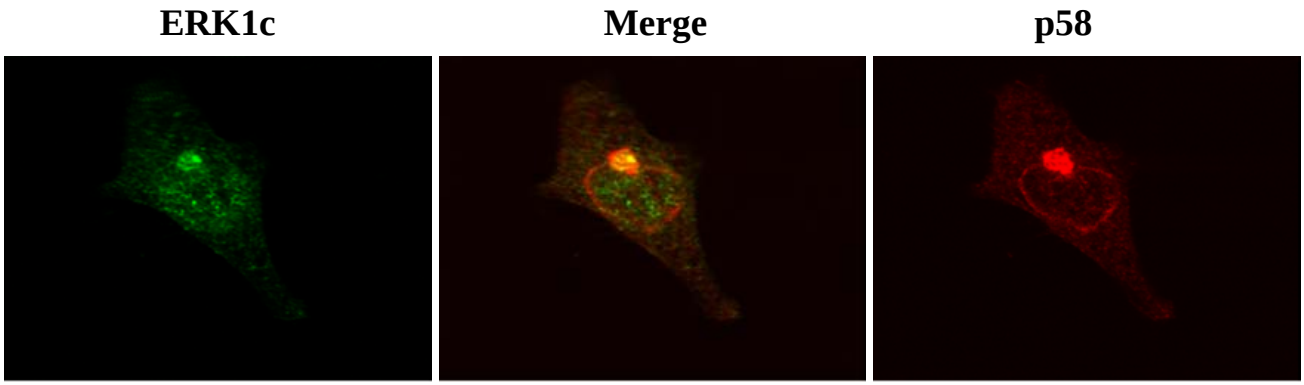

Fig. 13. Golgi localization of ERK1c (2): HeLa cells were stained with anti ERK1c and anti p58 Abs . The slides were visualized by a confocal microscope.

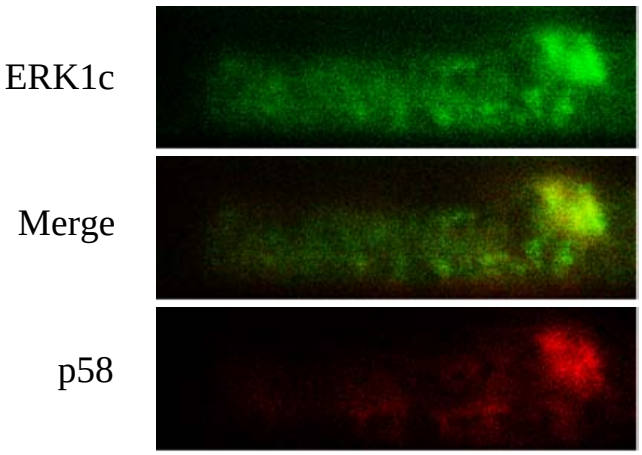

Fig. 14. Golgi localization of ERK1c (3): HeLa cells were stained with anti ERK1c and anti p58 Abs. The slides were visualized by a confocal microscope and the Z axis is presented.

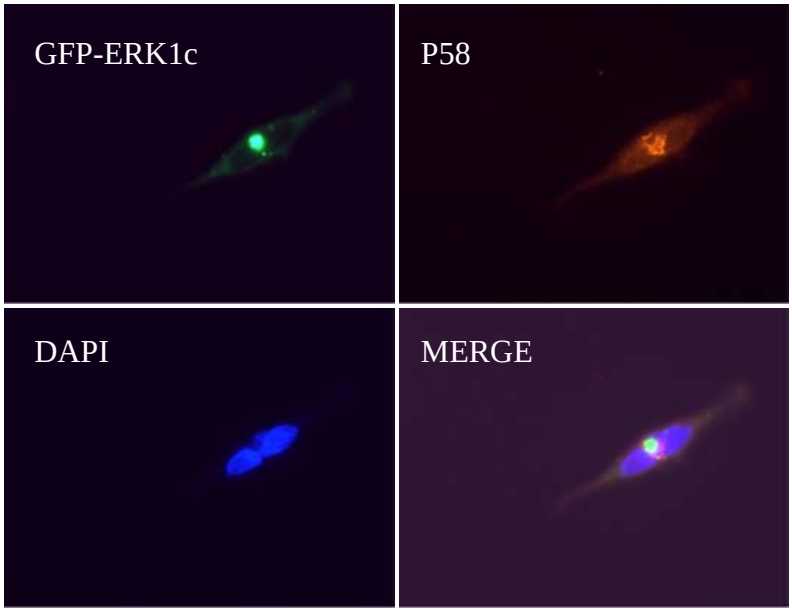

Fig. 15. Golgi localization of overexpressed ERK1c (1): HeLa cells transfected with GFP-ERK1c were stained with anti p58 Ab and with To-Pro-3 (nuclear marker). The slides were visualized by a confocal microscope.