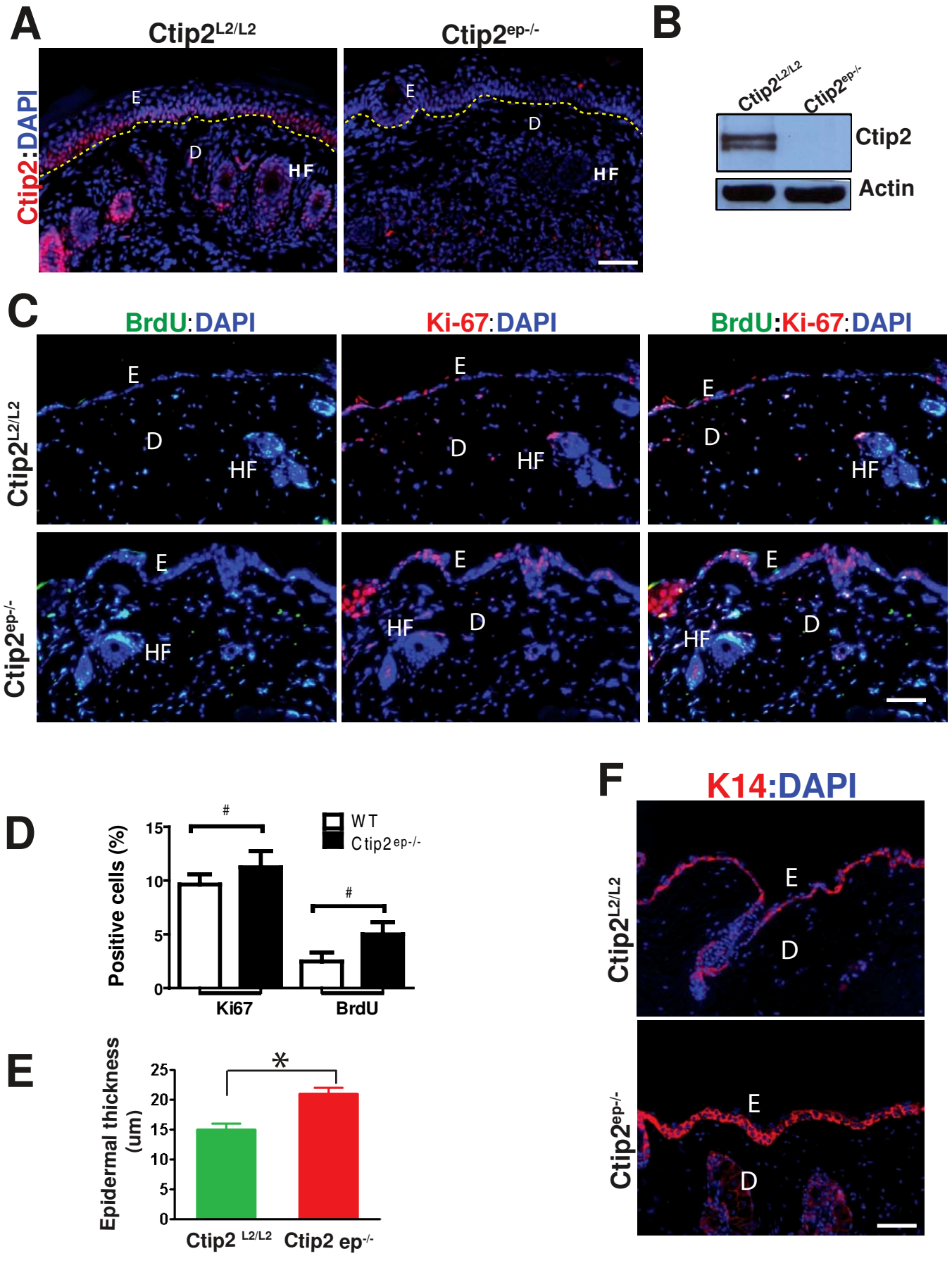Fig.S3 Liang et al., 2011