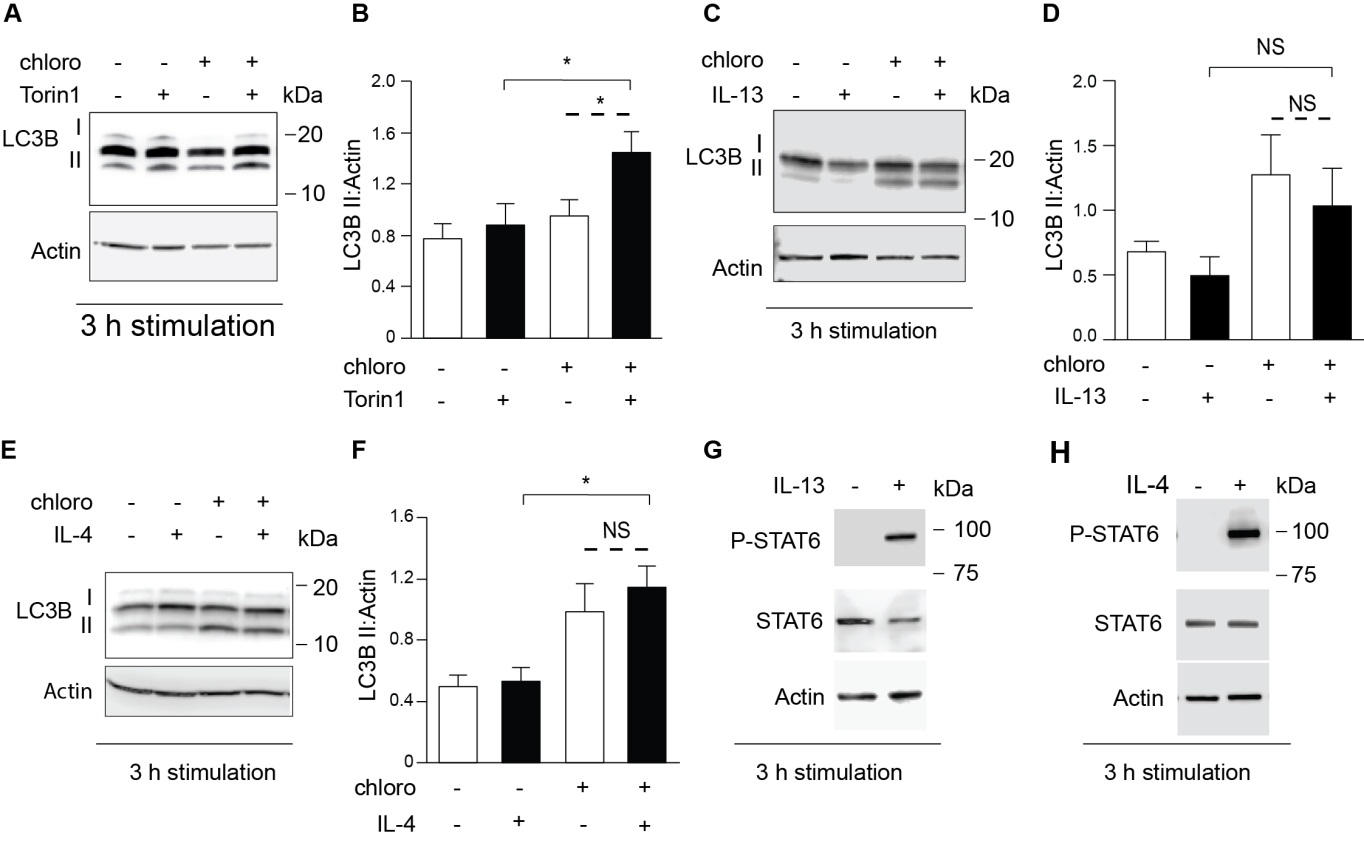
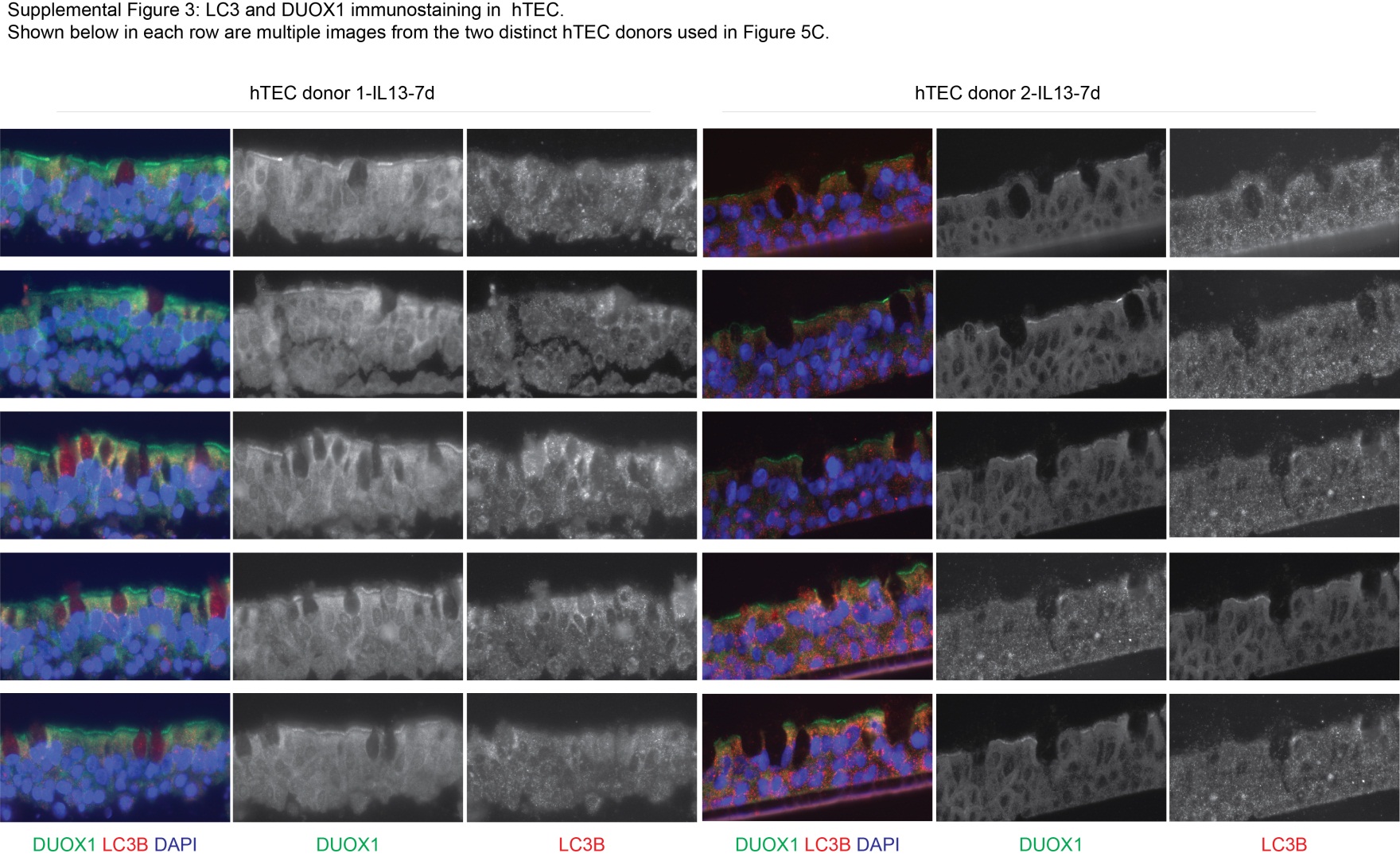
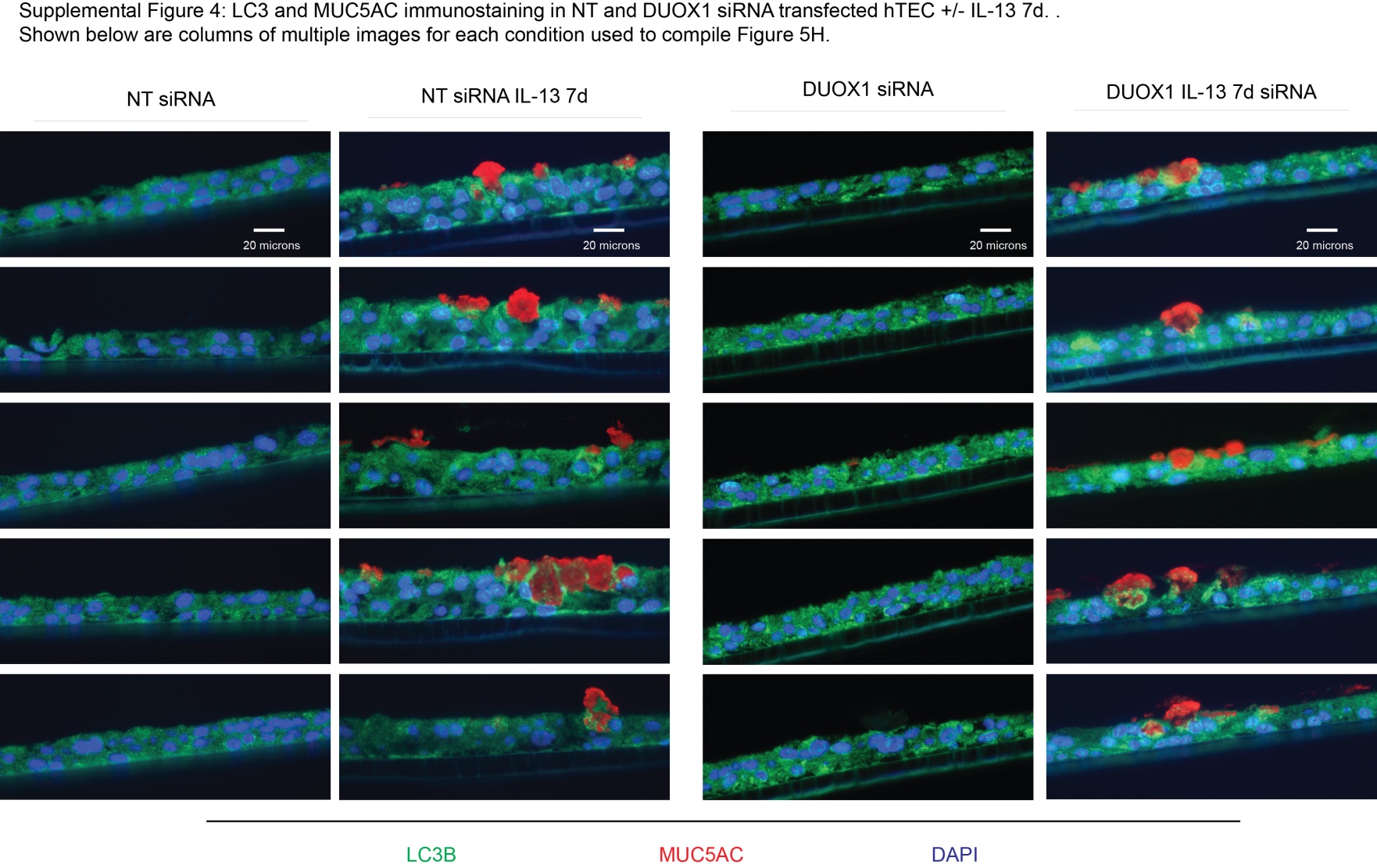
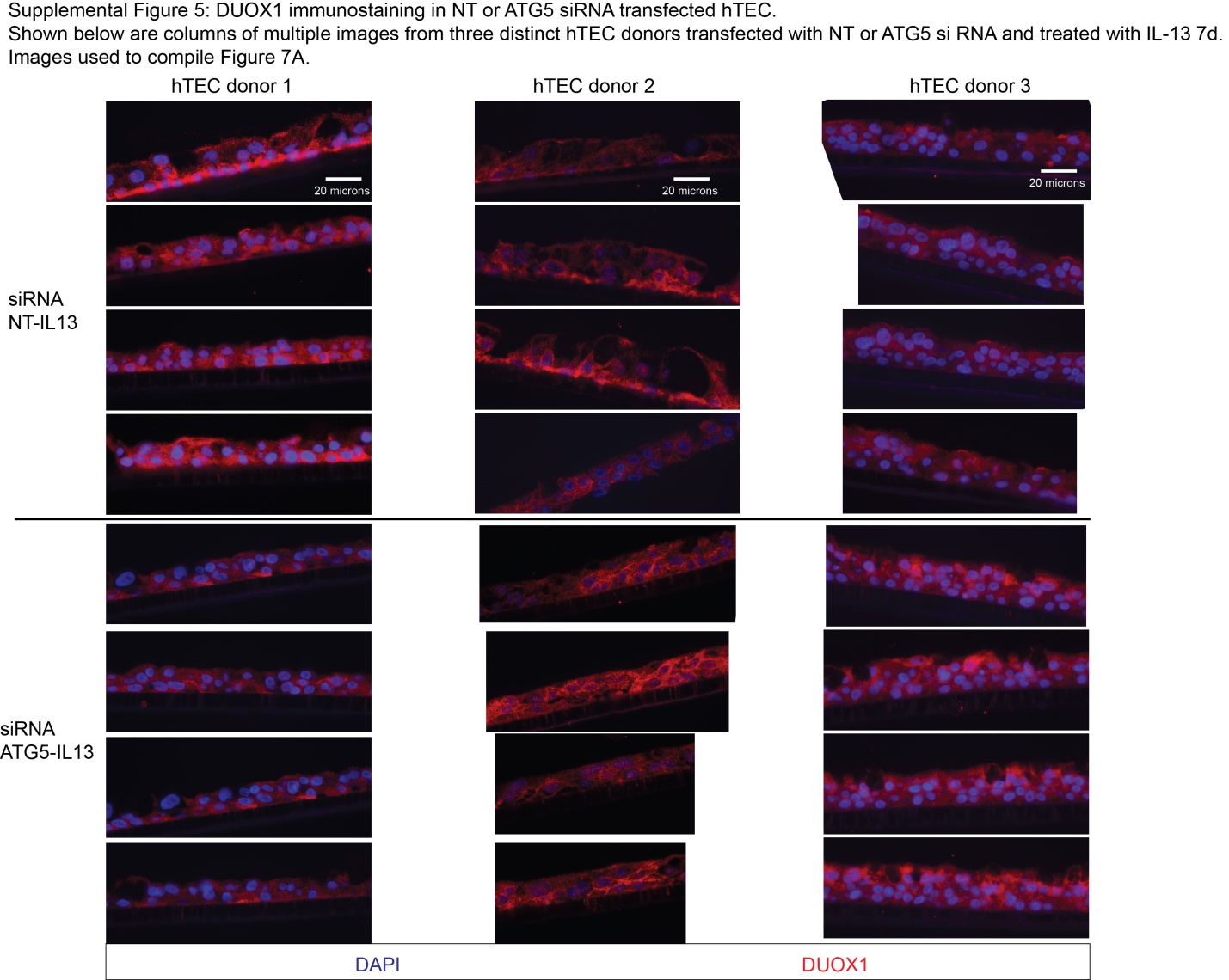
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*Supplemental Fig. 1: Brief Th2 cytokine treatment of airway epithelial cells does not activate autophagy.* (A) Autophagy activity in well-differentiated hTECs (ALI 21 days) treated with Torin1 (100 nM) for 3 h, measured using the chloroquine (chloro) flux assay and LC3B immunoblot with quantification of LC3BII bands relative to Actin bands (B) using densitometry (n=5). (C,D,E,F) Autophagy flux assays with quantification of LC3BII:actin band densitometry from cells treated with IL-13 or IL-4 (100 ng/mL each) (n=5/group). (G,H) Phospho-STAT6 (P-STAT6) and STAT6 levels in hTEC treated with IL-13 or IL-4 (100 ng/mL) for 3 h, assessed by immunoblot. Representative immunoblots are shown. Data are the mean ± SEM for each condition. A significant difference among groups was determined by ANOVA with significant Tukey’s post-hoc test (\*, p<0.05; NS=not significant). Solid lines over bars denote change in autophagy flux; dash lines over bars denote changes in autophagosome synthesis.



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**Supplemental Table 1**

|  |  |  |
| --- | --- | --- |
| **siRNA oligos** |  | **Dharmacon product number** |
| Non-targeted (NT): |  | D-001810-01-05 |
| ATG5 |  | L-004374-00-0005 |
| DUOX1 |  | L-008126-00-0005 |
|  |  |  |
| **Gene name** | **Direction** | **qPCR primer** |
| Mouse GAPDH | Forward | TGTGTCCGTCGTGGATCTGA |
|  | Reverse | CCTGCTTCACCACCTTCTTGAT |
|  |  |  |
| Mouse DUOX1 | Forward | GCCATTTGATGGATGGTAT |
|  | Reverse | TAGGCAGGTAGGGTTCTTT |
|  |  |  |
| Mouse DUOX2 | Forward | CCTTCACCACACTGATCTCCAC |
|  | Reverse | CCTTCACCACACTGATCTCCAC |
|  |  |  |
| Mouse NOX4 | Forward | AGGGACCTTCTGTGATCCTCG |
|  | Reverse | TCATCCAATTACCCAGCTTCCA |
|  |  |  |
| Mouse MUC5AC | Forward | TACCACTCCCTGCTTCTGCAGCGTGTCA |
|  | Reverse | ATAGTAACAGTGGCCATCAAGGTCTGTCT |
|  |  |  |
| Human LC3B | Forward | ACCATGCCGTCGGAGAAG |
|  | Reverse | ATCGTTCTATTATCACCGGGATTTT |
|  |  |  |
| Human DUOX1 | Forward | TTCACGCAGCTCTGTGTCAA |
|  | Reverse | AGGGACAGATCATATCCTGGCT |
|  |  |  |
| Human OAZ1 | Forward | GAGGGGAGCAAGGACAGC |
|  | Reverse | GGTTCTTGTGGAAGCAAATGA |