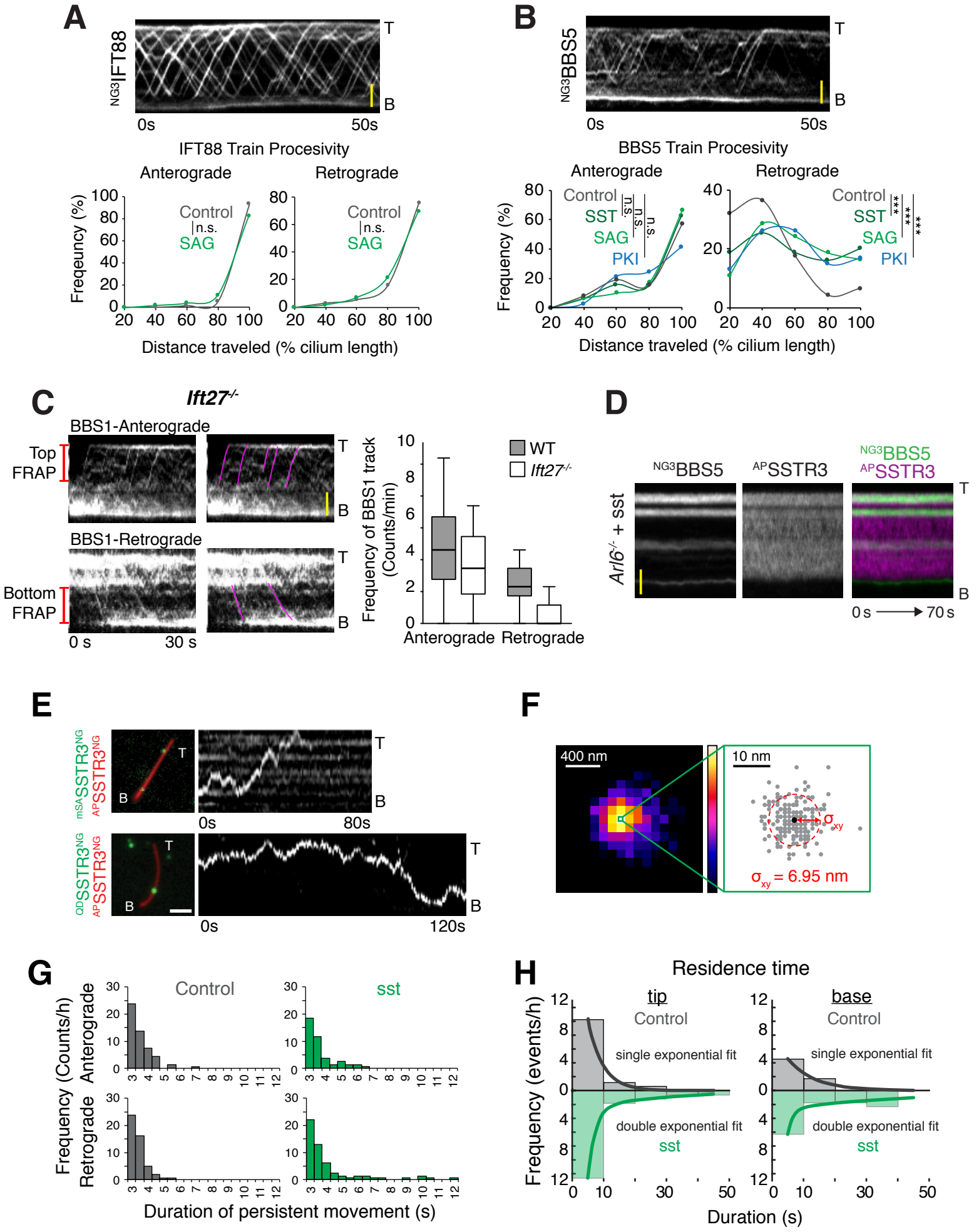
A
NG3IFT88
T
B
0s
50s
IFT88 Train Procesivity
Anterograde
Retrograde
Freqeuncy (%)
Control
n.s.
SAG
Distance traveled (% cilium length)
B
NG3BBS5
BBS5 Train Procesivity
Frequency (%)
SST
PKI
***
C
Ift27-/-
BBS1-Anterograde
Top FRAP
BBS1-Retrograde
Bottom FRAP
0 s
30 s
Frequency of BBS1 track (Counts/min)
WT
Ift27-/-
Anterograde
Retrograde
D
NG3BBS5
APSSTR3
NG3BBS5 APSSTR3
Arl6-/- + sst
0 s
70 s
E
mSASSTR3NG
APSSTR3NG
QDSSTR3NG
0s
80s
120s
F
400 nm
10 nm
σxy
σxy = 6.95 nm
G
Control
sst
Frequency (Counts/h)
Anterograde
Retrograde
Duration of persistent movement (s)
H
Residence time
tip
base
Control
single exponential fit
double exponential fit
sst
Frequency (events/h)
Duration (s)