

Supplemental Figure 1 Histology of airways from challenged mice showing interepithelial MMCs and submucosal CMCs in the trachea. MCs are identified by their reactivity for chloroacetate esterase with a hematoxylin counterstain. A neutrophil is shown for comparison.

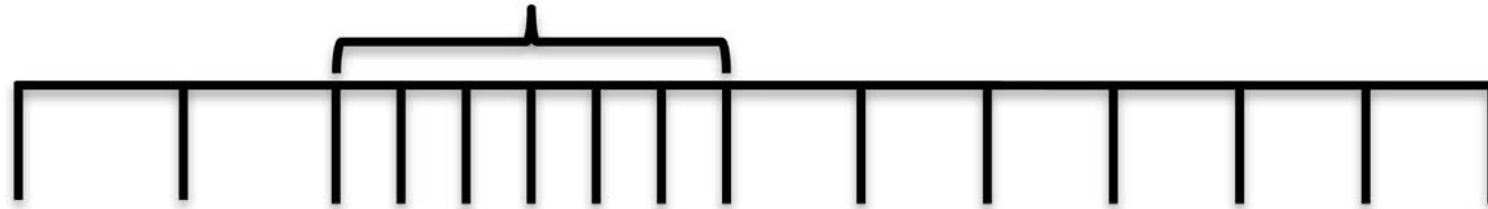
Sensitization Challenge

Post challenge

Day -14 -7

1-7

D1 D7 D14 D21 D42 D77



Sensitization:
ovalbumin
and alum ip

2%
aerosolized
ovalbumin
challenges

Analysis for
- MC populations (FACS D1-D14)
- mucosal MCs and CMC
(histology D1-77)

Supplemental Figure 2 Protocol of OVA-induced airway inflammation and analysis. BALB/c mice were sensitized with OVA/alum injected intraperitoneally on days -14 and -7 and either not challenged or challenged with 2% aerosolized OVA daily on days 1-7. Mice were analyzed on D1, D7, D14, D21, D42 and D77 post-challenge.