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**CD127-BV650 (clone HIL-7R-M21 ) from BD (cat#563225)  
often gives poor signal**

→ Difficult to gate out CD25+CD127-/low cells

**Purpose:** Compare to alternative from Biolegend, CD127-BV650 clone A019D5,  
cat# 351326)

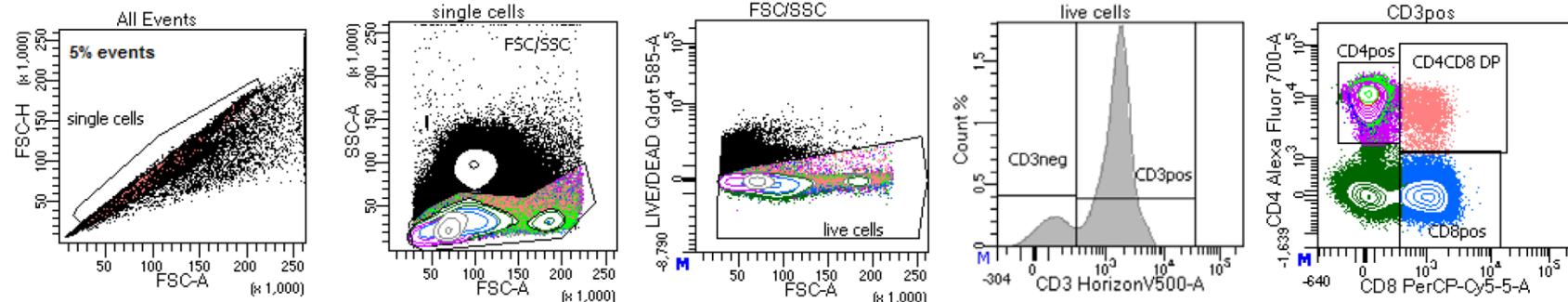
**Standard panel**

1. CD3 V500
2. CD8 PerCP Cy5.5
3. CD4 AF700
4. CD25 PE CY7
5. **CD127 BV650**      **BD**
6. Foxp3 PE CF594
7. CD45RA-APC H7

**Adjusted panel**

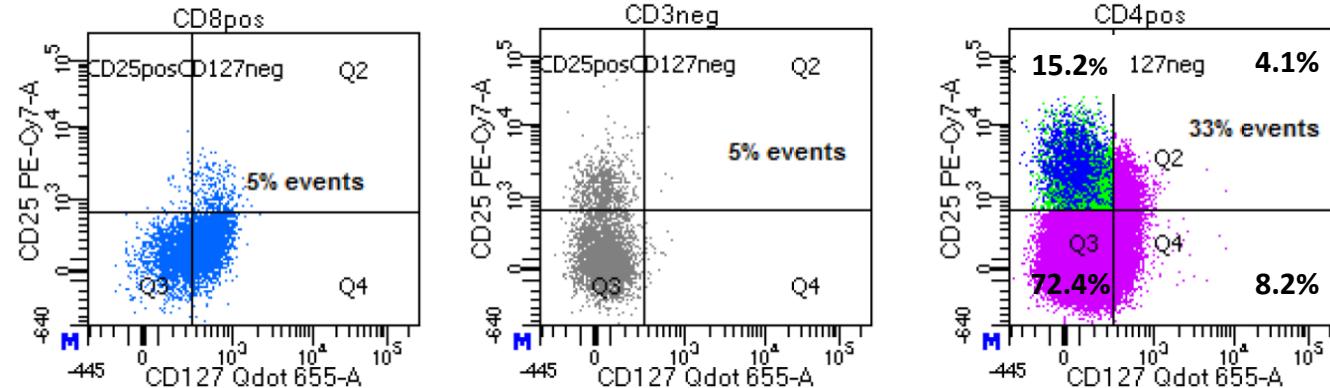
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3. CD4 AF700
4. CD25 PE CY7
5. **CD127 BV650**      **Biolegend**
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## Gating strategy

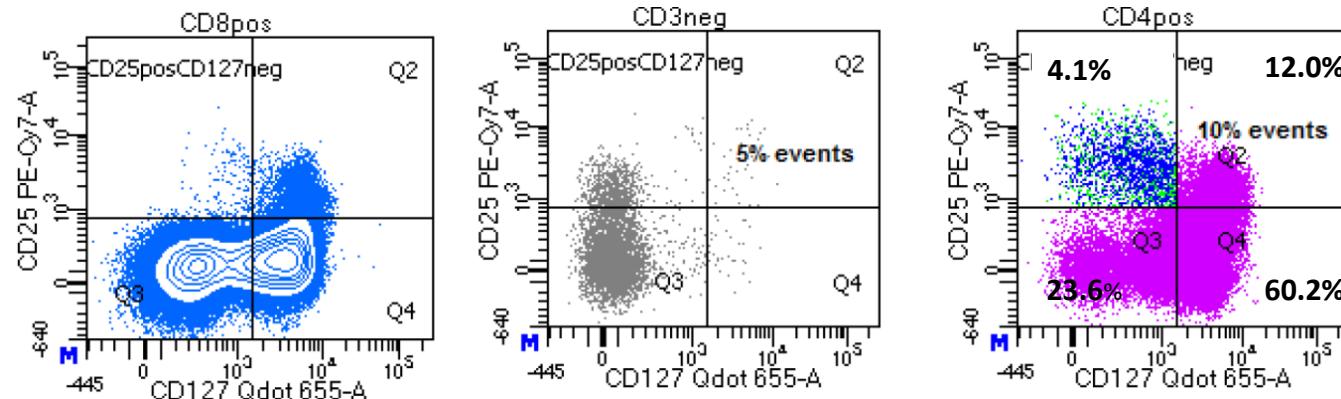


Reference plots for CD25/CD127 gating

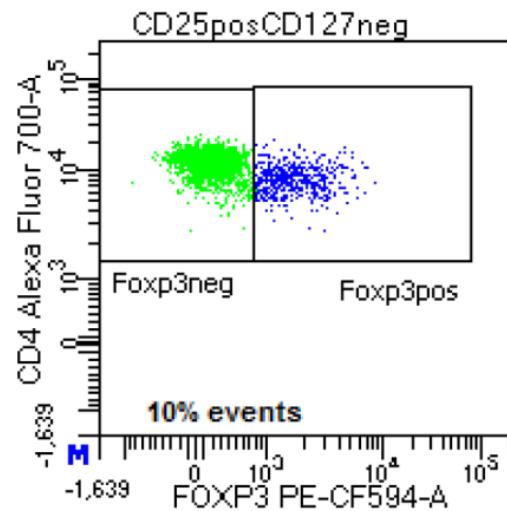
Old CD127 antibody  
(BD, cat# 563225;  
clone HIL-7R-M21)



New CD127 antibody  
(Biolegend, cat# 351326;  
clone A019D5)



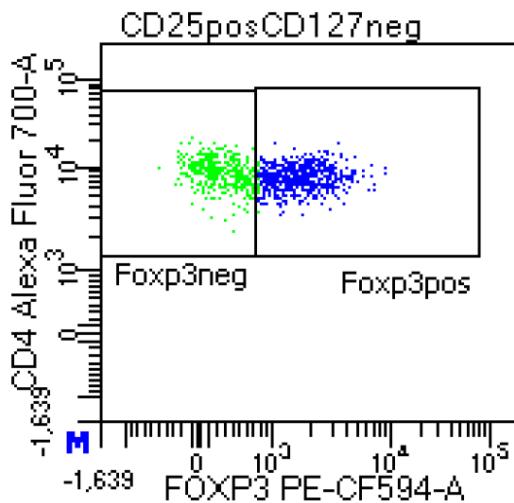
With old CD127 antibody  
(BD, cat# 563225;  
clone HIL-7R-M21)



Foxp3 = 17.3 % of CD4

CD25+CD127-Foxp3+ cell = 2,6% of CD4

With new CD127 antibody  
(Biolegend, cat# 351326;  
clone A019D5)



Foxp3 = 59.3 % of CD4

CD25+CD127-Foxp3+ cell = 2,5% of CD4

## **conclusions:**

- CD127 BV650 antibody from Biolegend much better than from BD
  - Adjusted gating:
    - % CD25posCD127low/neg population within CD4 greatly reduced
    - FoxP3pos population within CD25posCD127low/neg population greatly increased
- Frequency of Foxp3+ cells within CD4 similar!!