

Table S2. Cell counts for calculations of adult labeling indices

| Experiment | Timepoint | Markers scored | Number of mice | Number of fields/mouse | Total number of marker* cells scored |
|------------|------------------------------|-----------------------|----------------|------------------------|--------------------------------------|
| Fig. 5 | 7-day chase | Amylase | 6 | 7-9 | 23252 |
| | | CK19 | | | 4174 |
| | 2-month chase | Amylase | 10 | 4-7 | 25445 |
| | | CK19 | | | 4167 |
| | 7-day chase 2-month chase | CK19 ⁺ CAC | 3 | 5-6 | 336 222 |
| Fig. 7 | 7 days post | CK19 | 5 | 5-6 | 8762 |
| | | E-cadherin | | | 9603 |
| Fig. S9 | 7-day chase | Glucagon | 6 | 5-8 | 2205 |
| | | Insulin | 3 | 4-7 | 2002 |
| | 2-month chase | Glucagon | 4 | 5-7 | 1167 |
| | | Insulin | 3 | 5-9 | 2216 |

For each figure, we list the number of adult mice analyzed per timepoint, the number of microscopic fields scored per mouse and the total number of *differentiation marker-expressing cells (across all mice) scored for co-expression of the *R26R^{EYFP}* lineage marker. Note that for the duct ligation experiments (Fig. 7), we manually scanned the entire surface of each slide for labeling of insulin⁺ cells, using the specimens scored here for labeling of CK19⁺ and E-cadherin⁺ cells, as well as additional specimens in which CK19⁺ and E-cadherin⁺ cells were not analyzed.