|  |  |  |  |
| --- | --- | --- | --- |
| Type of Cre | Day of analysis | No. of genotype | Total |
| *Cre*-*Itpr1*f/+*Itpr2*-/- | *Cre*-*Itpr1*f/f*Itpr2*-/- | *Cre*+*Itpr1*f/+*Itpr2*-/- | *Cre*+*Itpr1*f/f*Itpr2*-/- |
| TnT-Cre | E10.5 | 6 (22.2%) | 5 (18.5%) | 10 (37.0%) | 6 (22.2%) | 27 |
| P1 | 25 (19.2%) | 38 (29.2%) | 35 (26.9%) | 32 (24.6%) | 130 |
| Tie2-Cre | E10.5 | 4 (19.0%) | 7 (33.3%) | 5 (23.8%) | 5 (23.8 %) | 21 |
| P1 | 30 (25.4%) | 33 (27.9%) | 28 (23.7%) | 27 (22.8%) | 118 |
| Flk1-Cre | E10.5 | 8 (36.4%) | 4 (18.2%) | 3 (13.6%) | 7 (31.8%) | 22 |
| P1 | 12 (26.1%) | 13 (28.2%) | 7 (15.2%) | 14 (30.4%) | 46 |
| Mesp1-Cre | E10.5 | 6 (21.4%) | 11 (39.3%) | 4 (14.3%) | 7 (25.0%) | 28 |
| P1 | 18 (23.1%) | 20 (25.6%) | 16 (20.5%) | 24 (30.8%) | 78 |

**Supplemental Table 1. Genotypic analysis of embryos for generation of cell / tissue specific IP3R1 and IP3R2 knockout mice.** To generate cell / tissue specific IP3R1 and IP3R2 double knockout mice, male Cre+*Itpr1*f/+*Itpr2*-/- mice were crossed with female Cre-*Itpr1*f/f*Itpr2*-/- mice. The genotypes were first analyzed at postnatal day 1 (P1) to see whether the offspring were born at Mendelian ratios, and the embryos at E10.5 were then collected for morphological analysis.