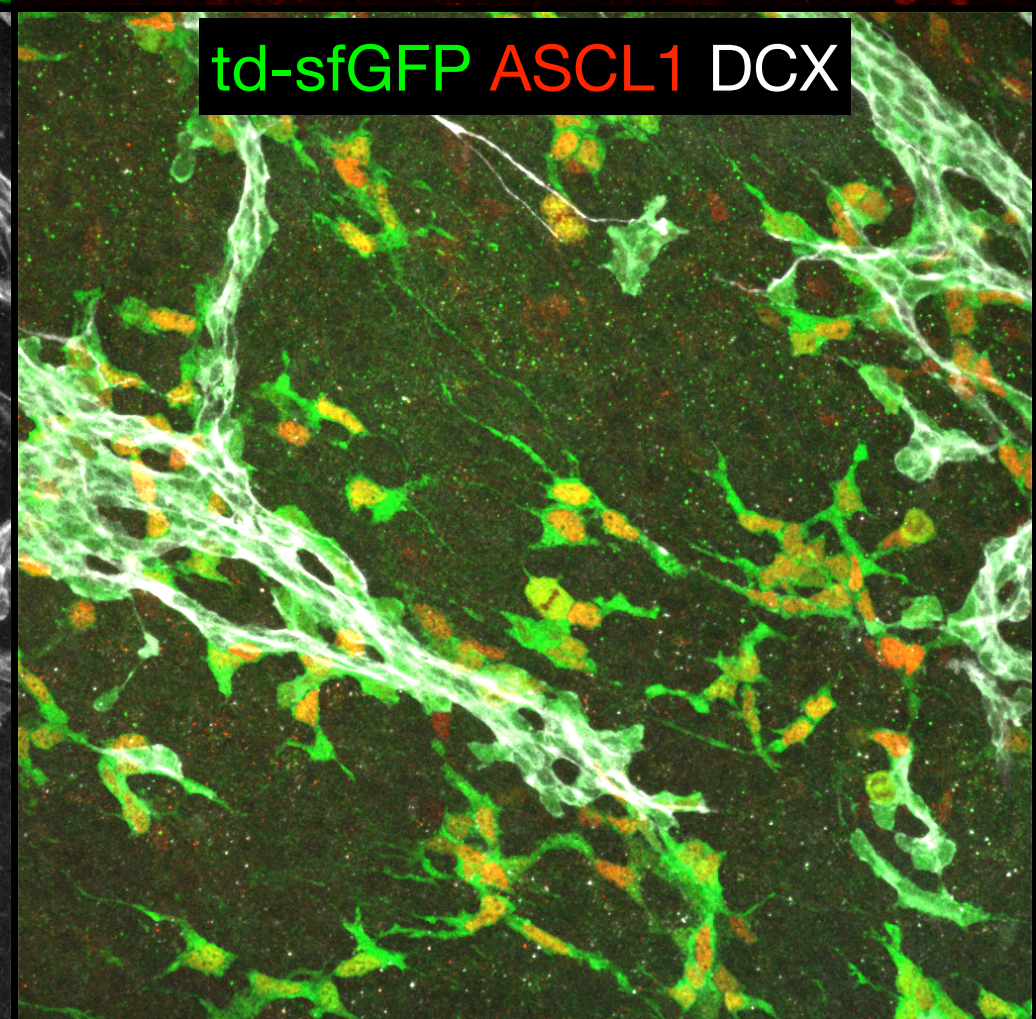
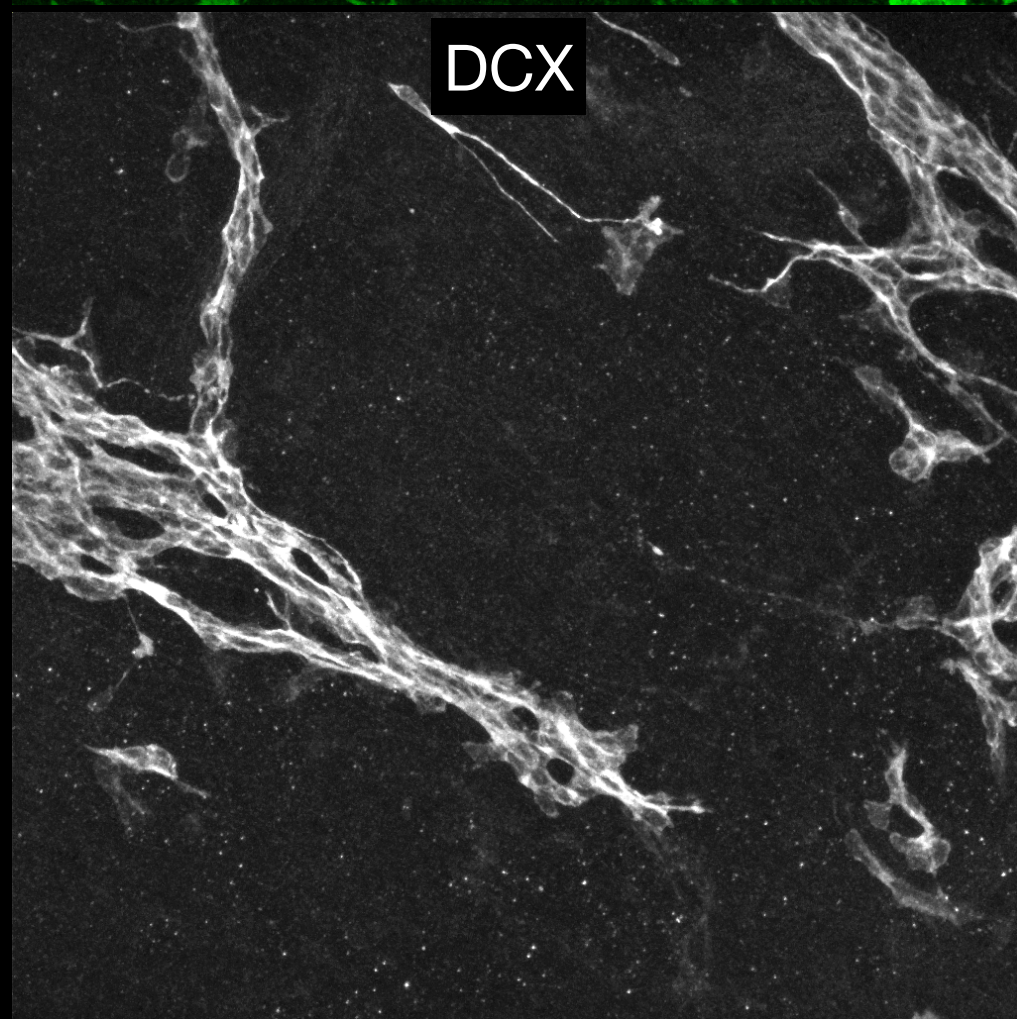
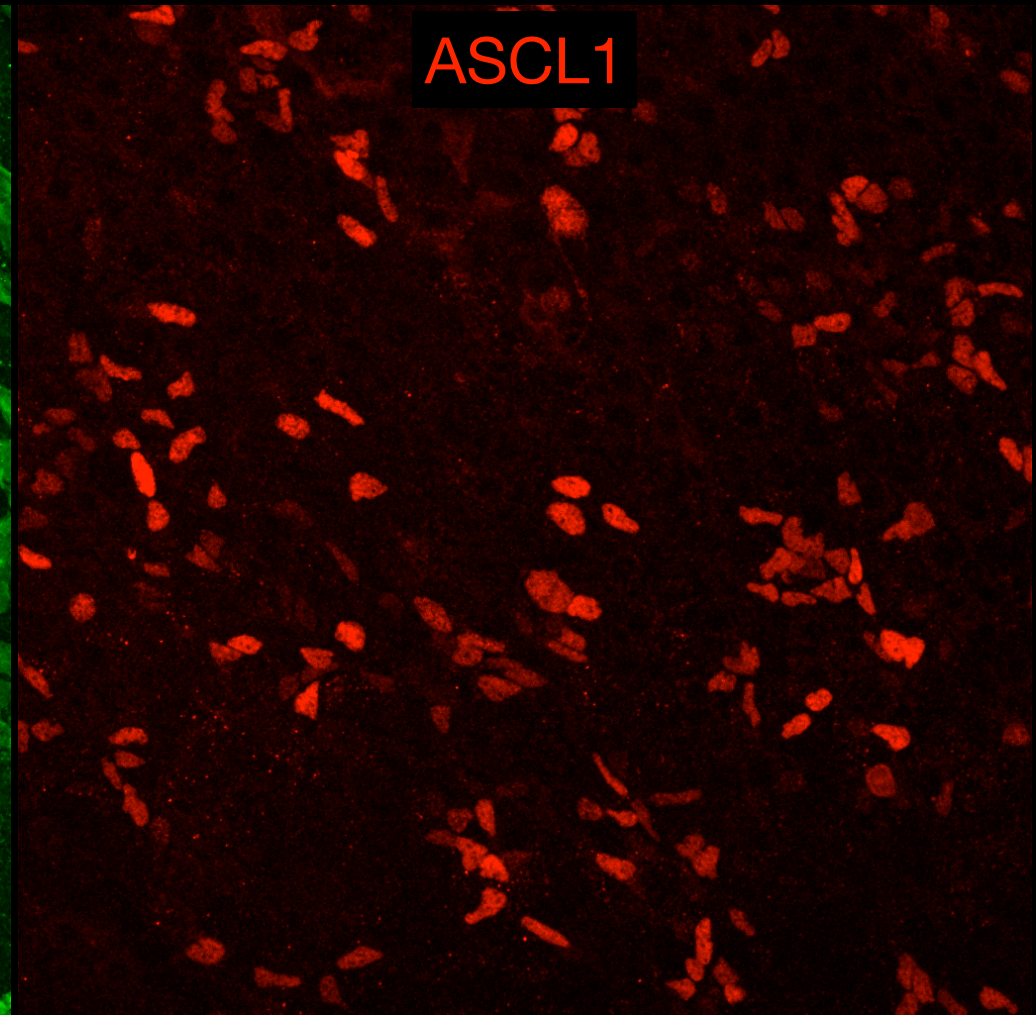
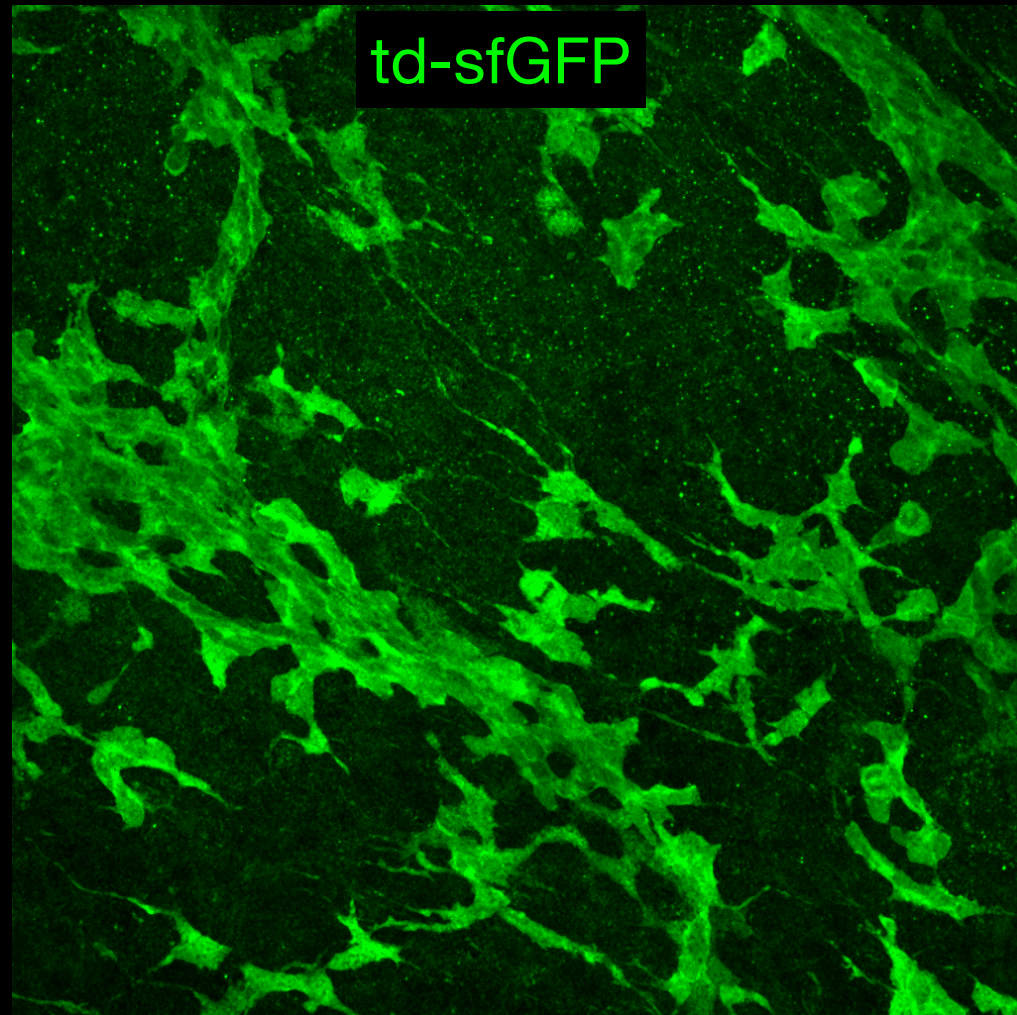
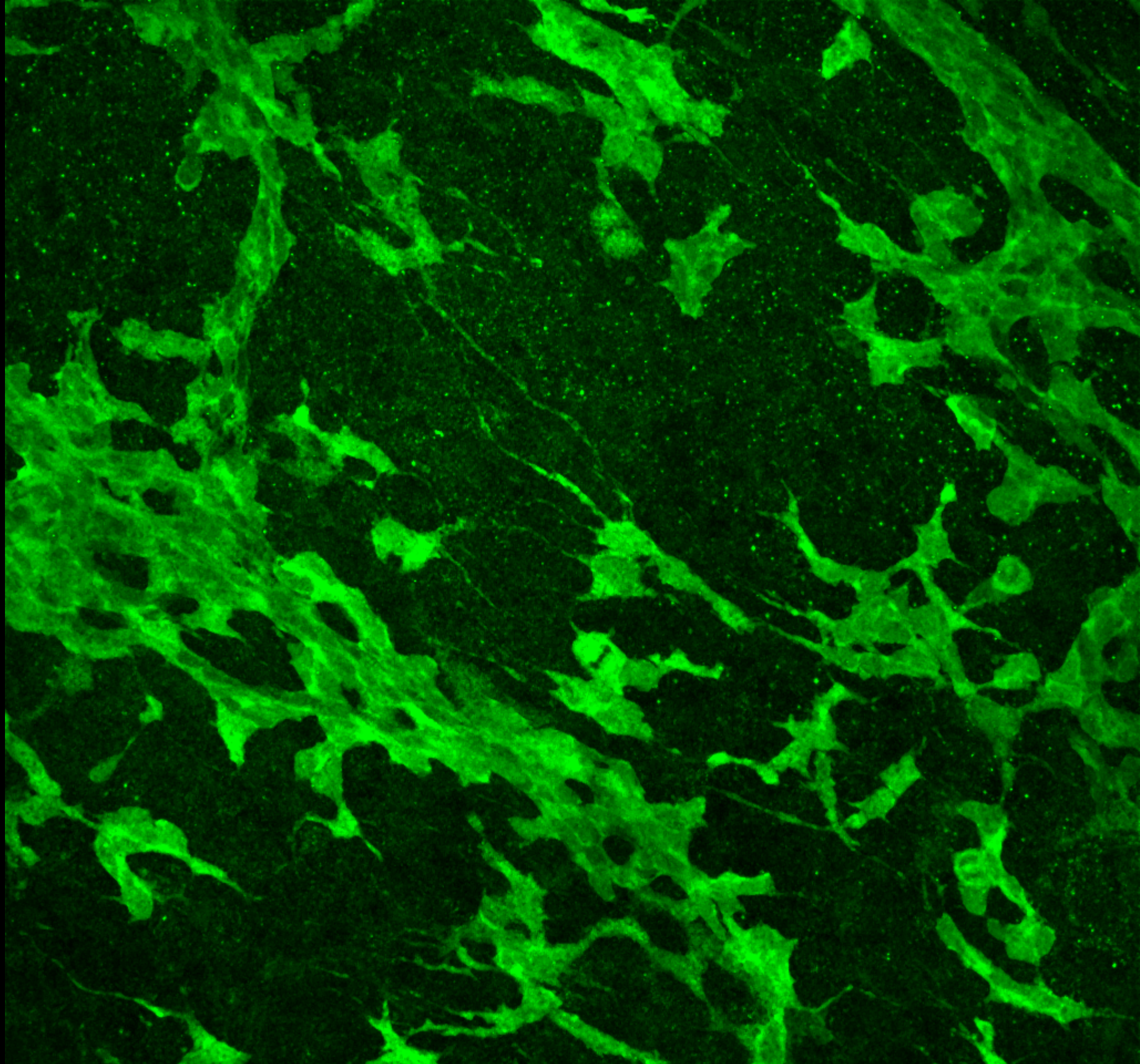


Cdk6^{T2A}-td-sfGFP/+

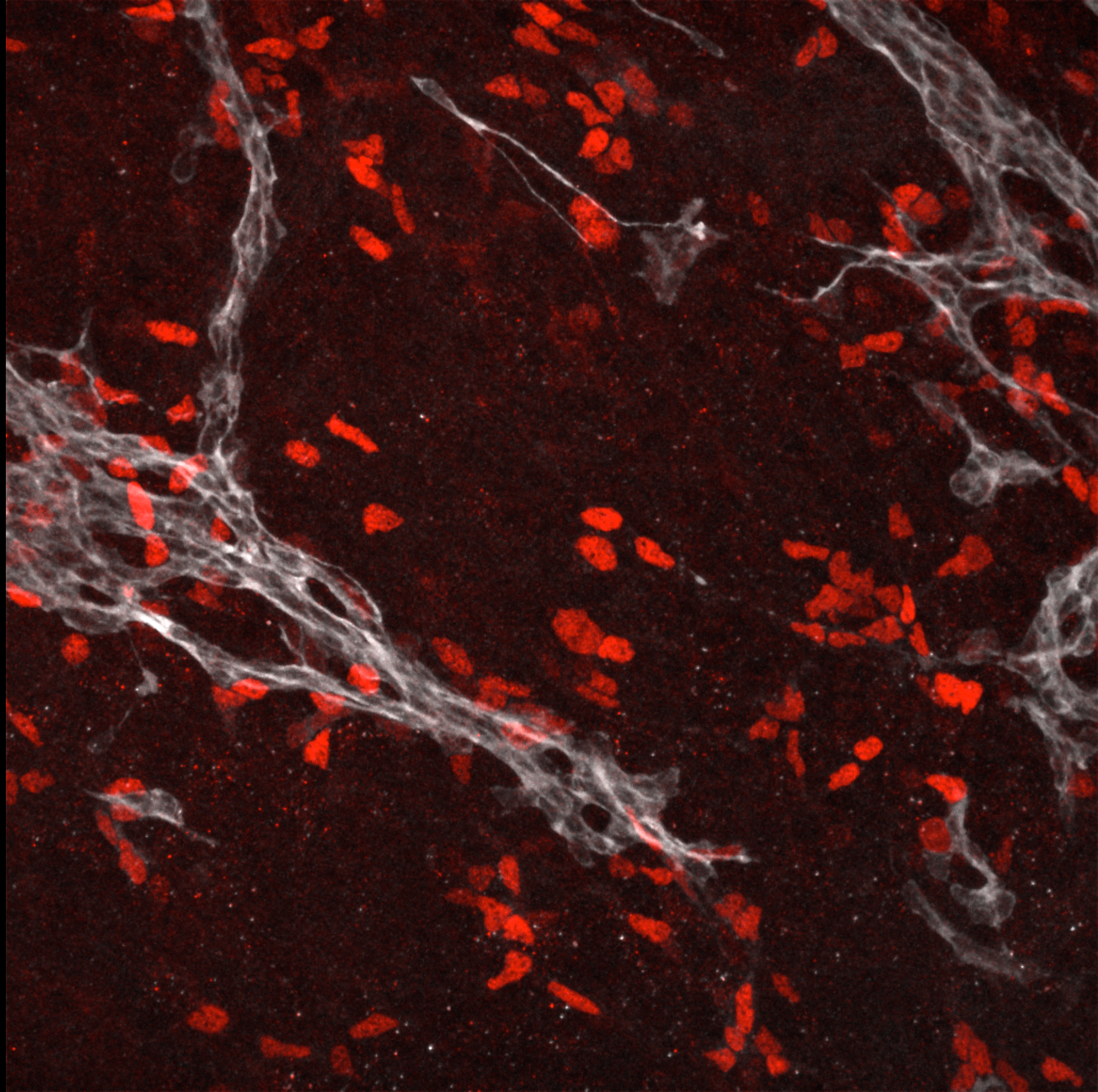
Whole mount
immunofluorescence

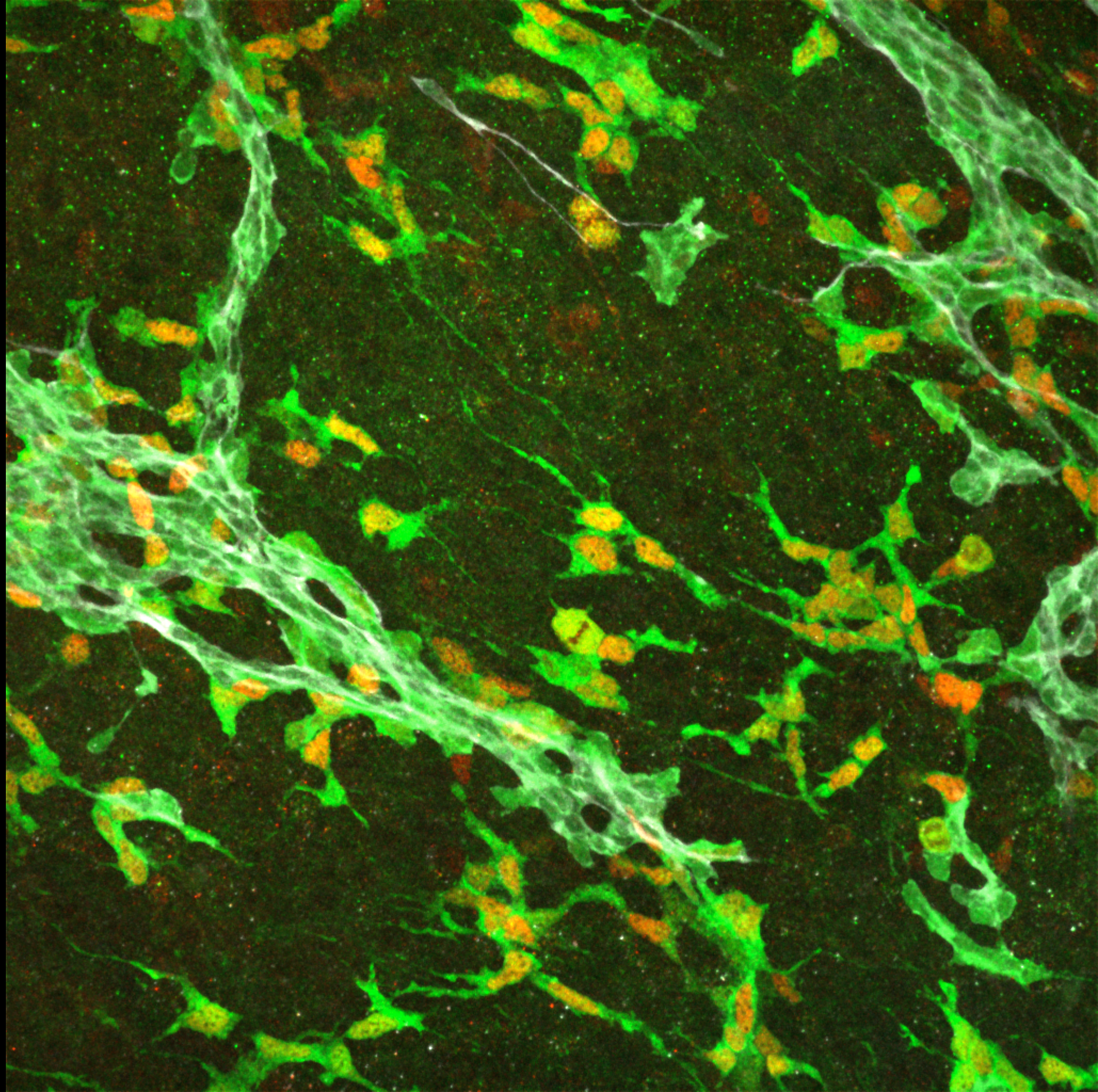
40x objective image
Max projection





The anti-GFP antibody is compatible with the sfGFP variant used in this mouse line





V-SVZ single cell preparation

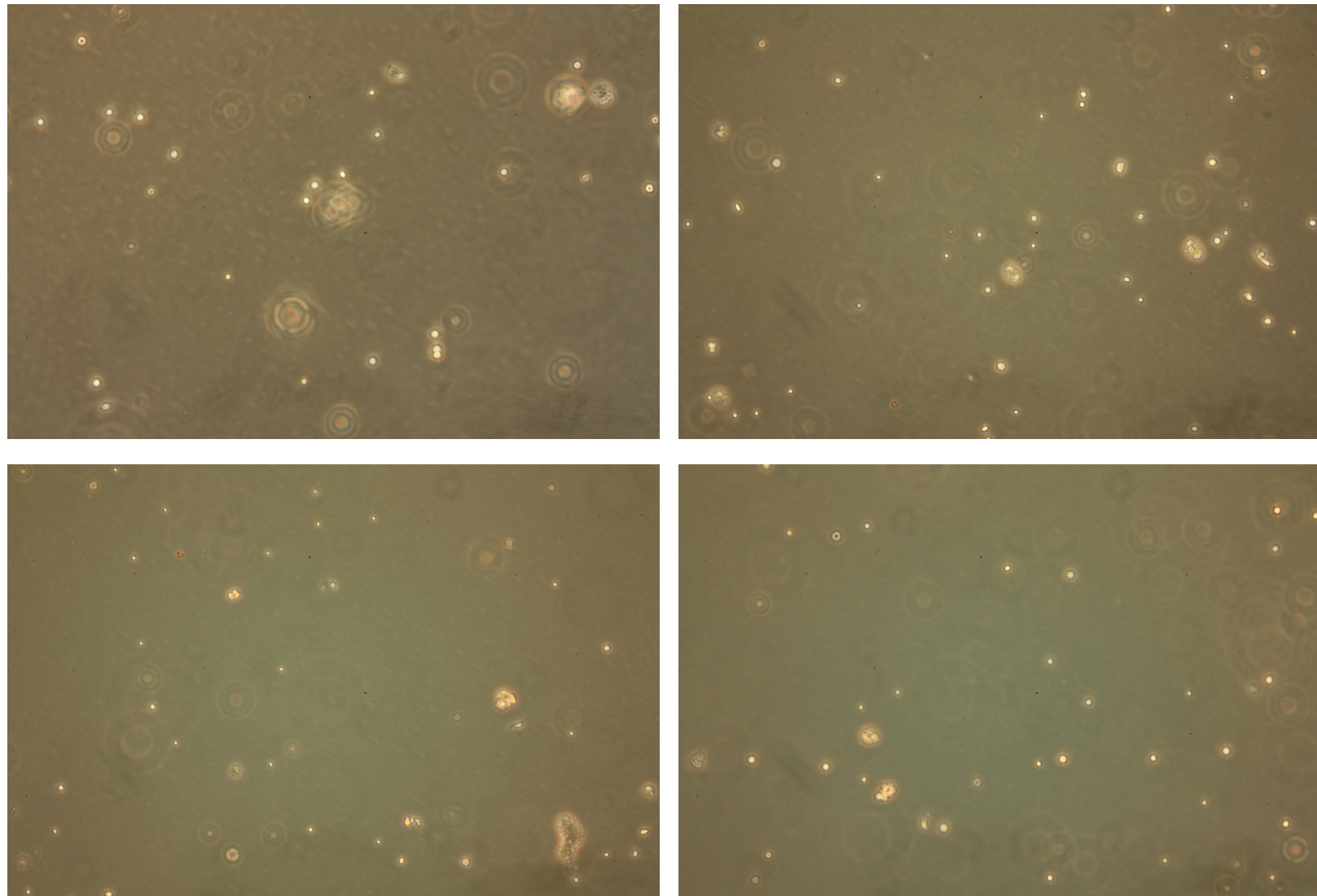
PROTOCOL

Prospective isolation of adult neural stem cells from the mouse subependymal zone

Judith Fischer^{1,4}, Ruth Beckervordersandforth^{1,4}, Pratibha Tripathi^{1,3}, Andrea Steiner-Mezzadri¹, Jovica Ninkovic^{1,2} & Magdalena Götz^{1,2}

NATURE PROTOCOLS | VOL.6 NO.12 | 2011 | 1981

→ Single cells, not much debris

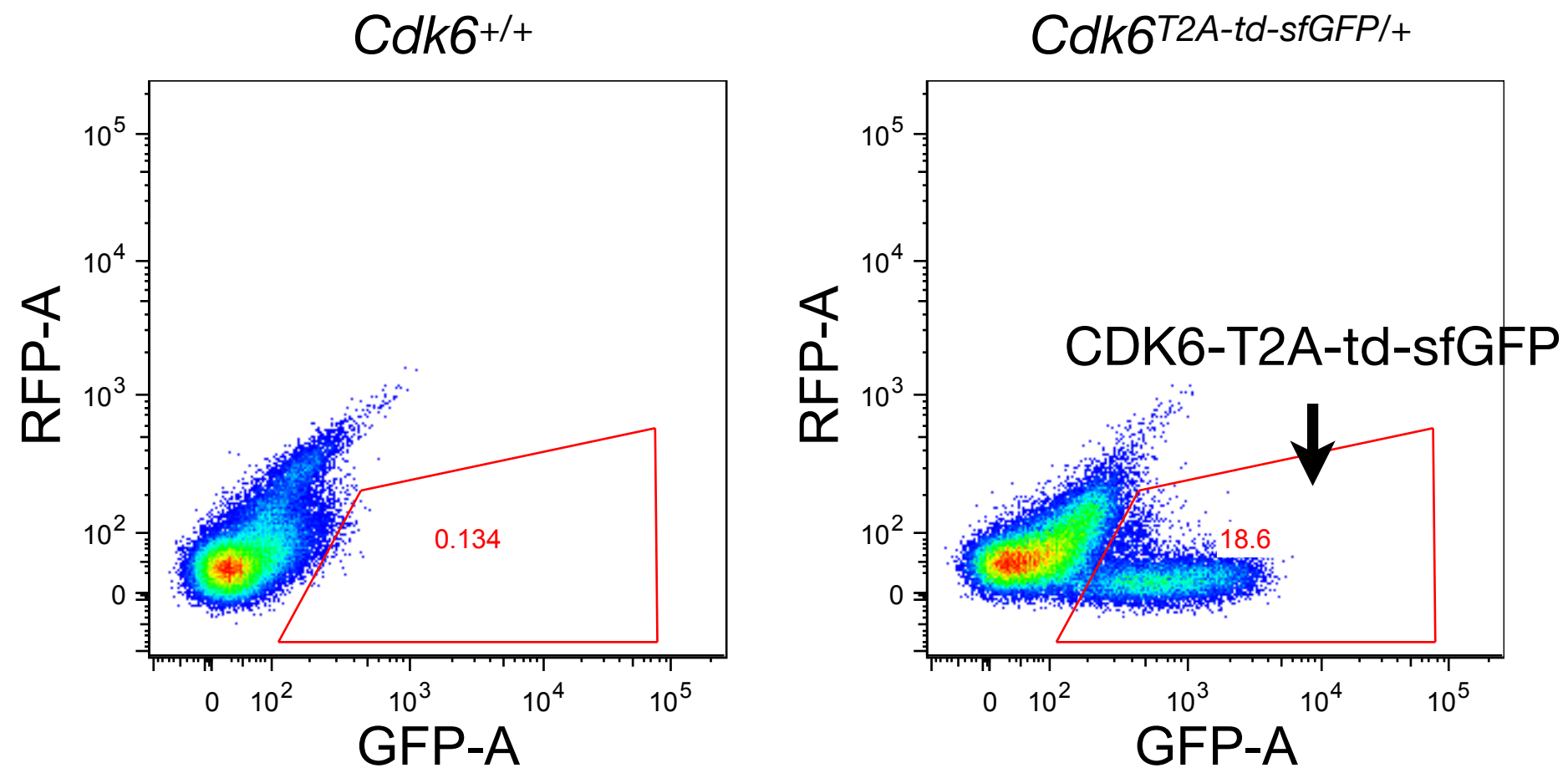


Protocol worked well

Flow cytometric analysis of V-SVZ cells from a *Cdk6*^{T2A-td-sfGFP/+} mouse

Canto II

Live cell fluorescence flow cytometry

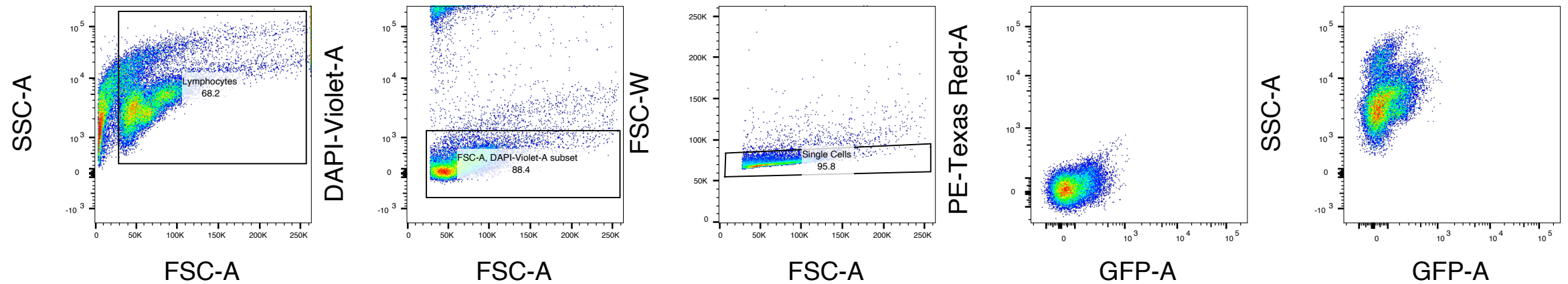


CDK6-T2A-td-sfGFP is bright

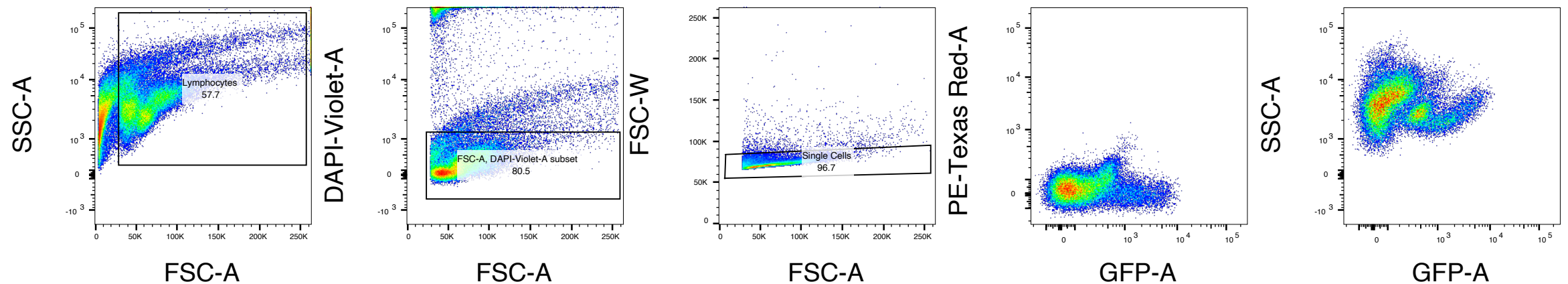
FACS sorting from a *Cdk6*^{T2A-td-sfGFP/+} mouse or a *Cdk6*^{T2A-td-sfGFP/T2A-td-sfGFP} mouse

Aria

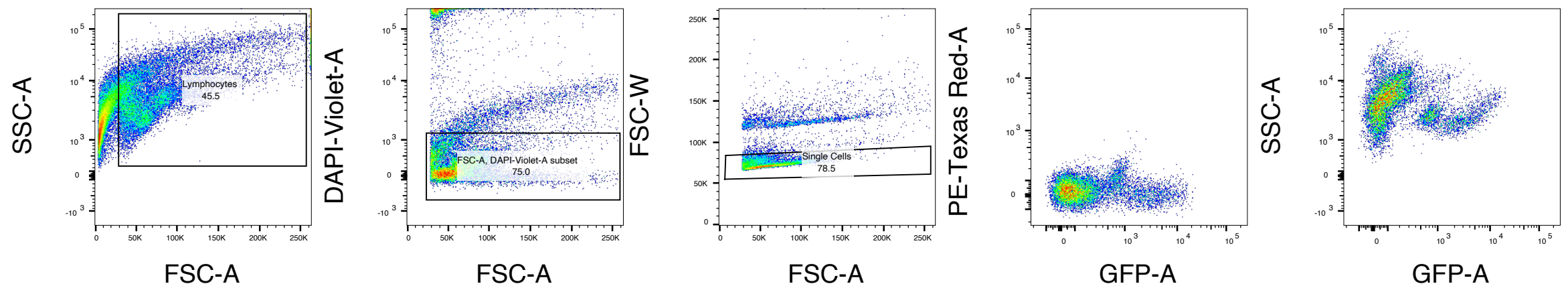
Cdk6^{+/+}



Cdk6^{T2A-td-sfGFP/+}

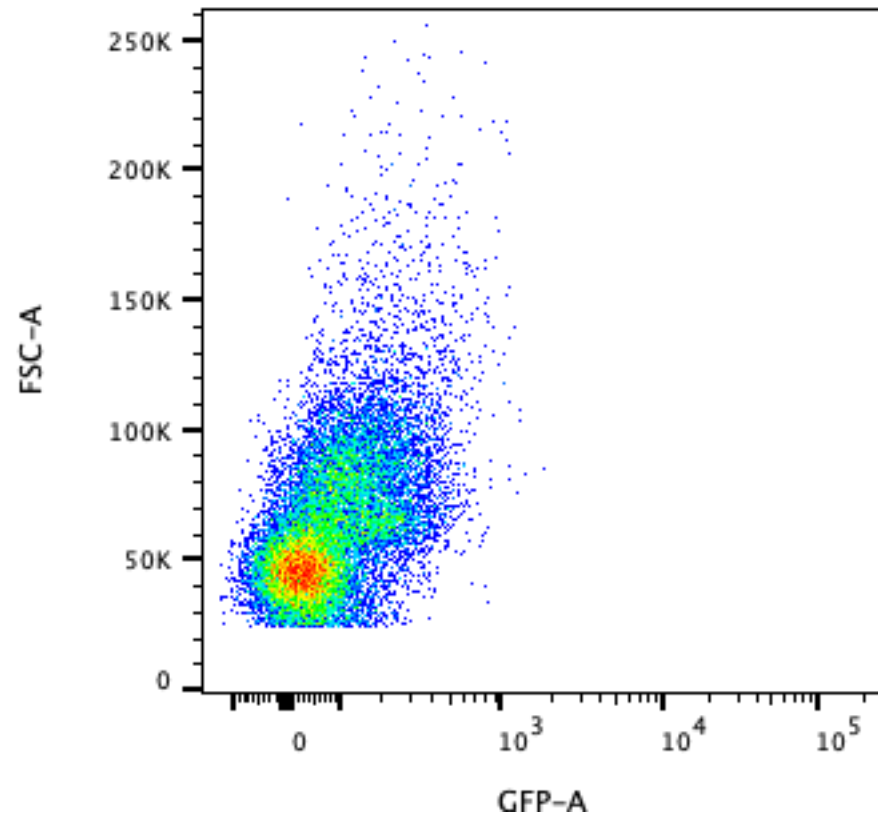


Cdk6^{T2A-td-sfGFP/T2A-td-sfGFP}

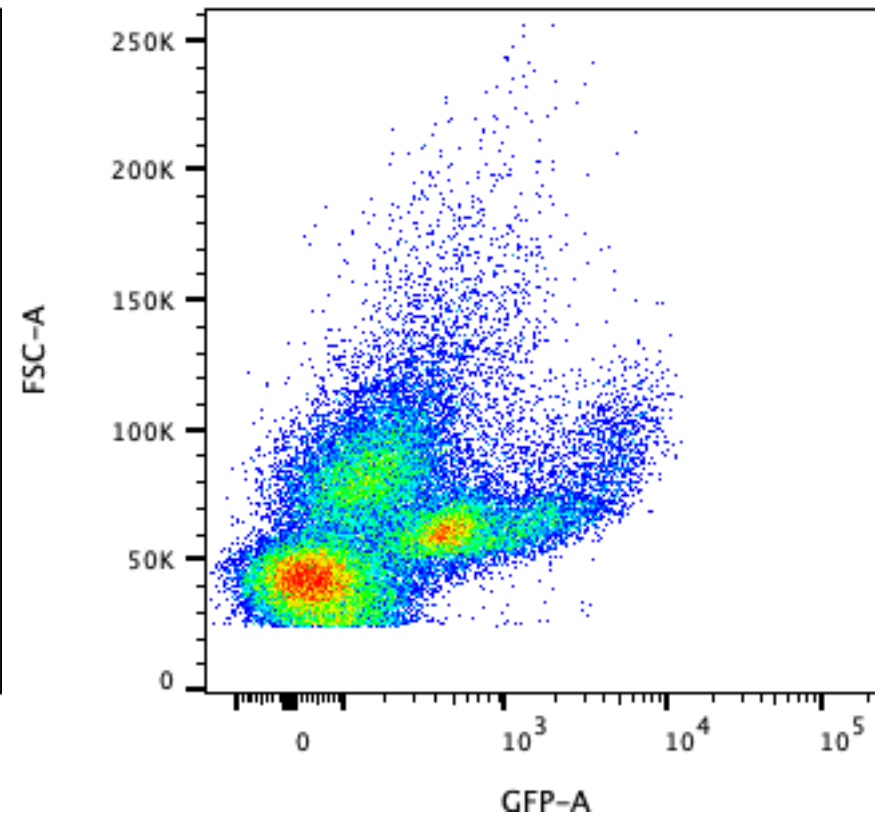


Homozygous cells are ~2x brighter than heterozygous cells

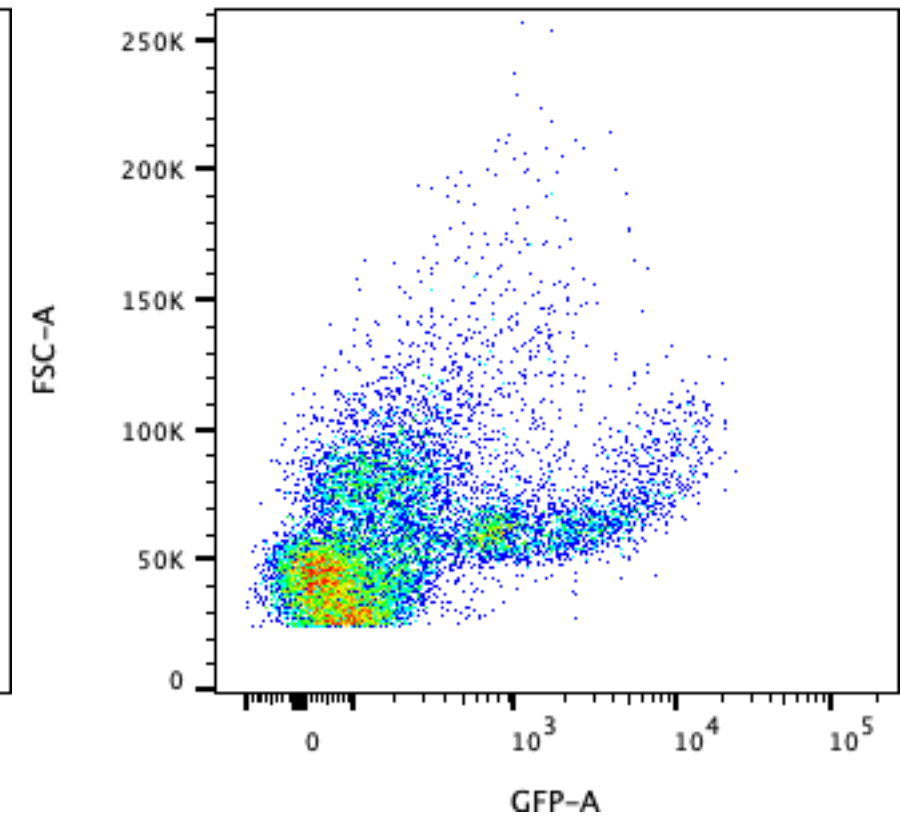
Cdk6^{+/+}



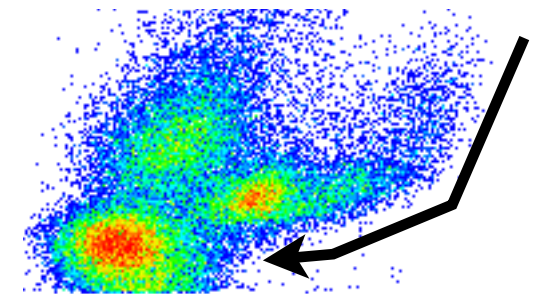
Cdk6^{T2A-td-sfGFP/+}



Cdk6^{T2A-td-sfGFP/T2A-td-sfGFP}

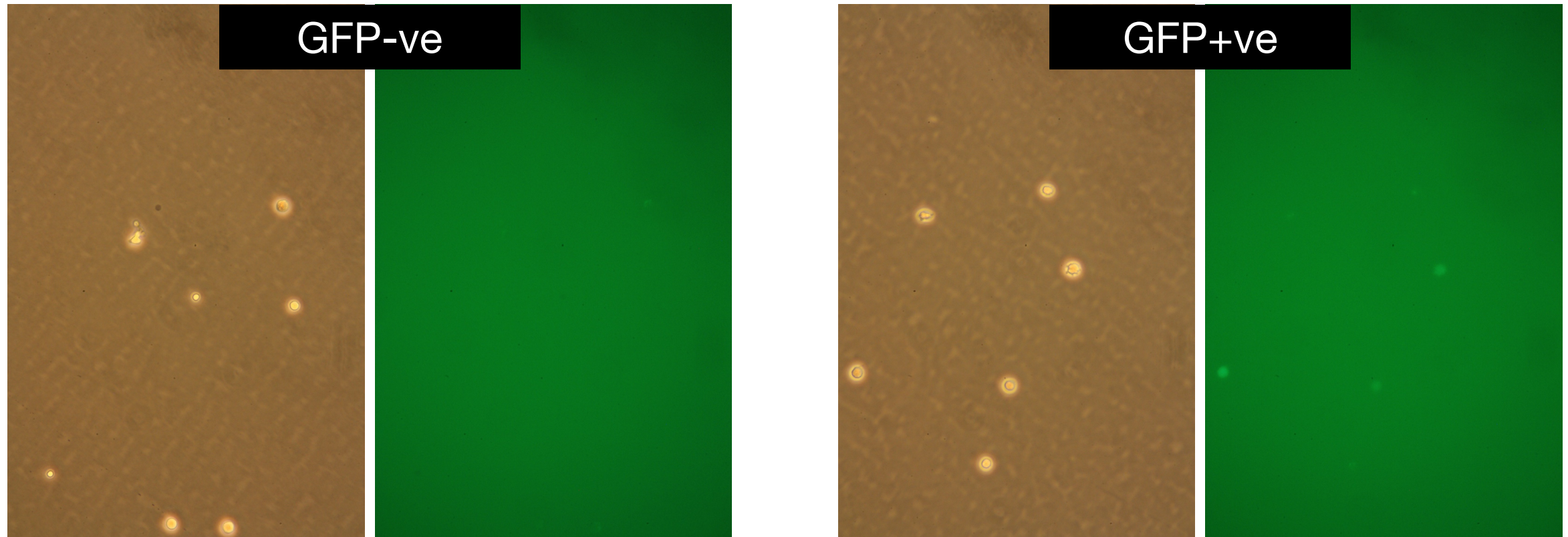


As CDK6-T2A-td-sfGFP signal decreases, FSC decreases as well

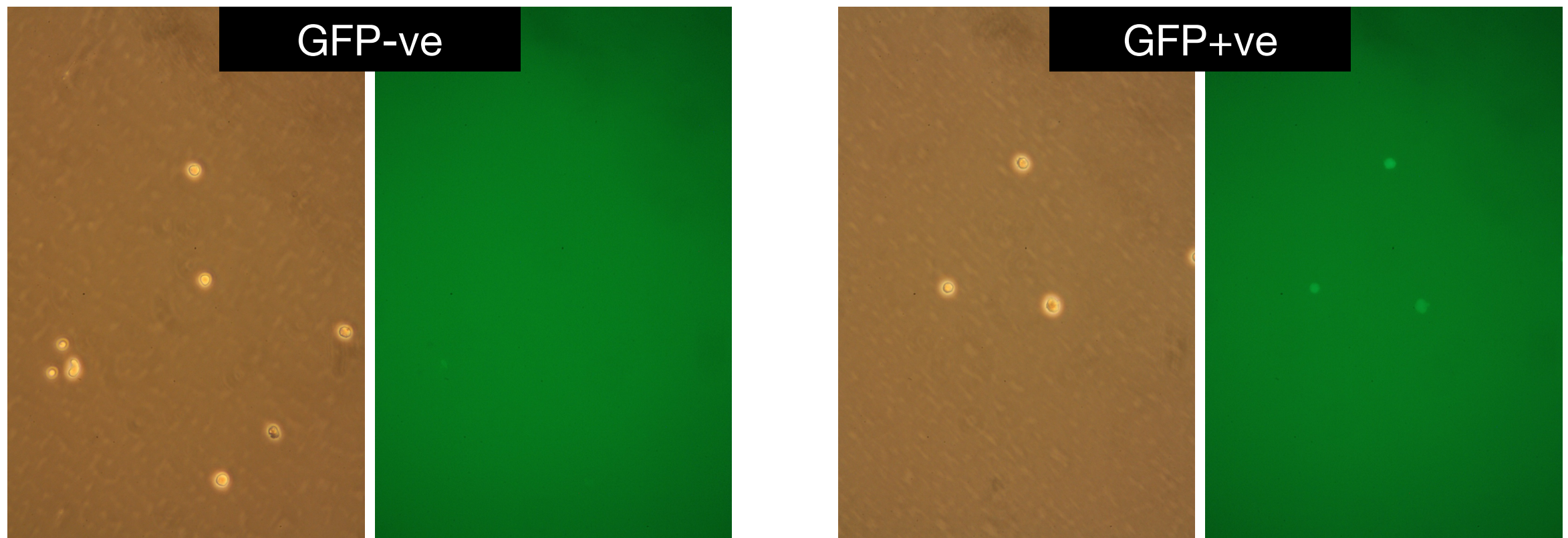


FACS sorted cells plated
Live cell fluorescence

Cdk6^{T2A-td-sfGFP/+}

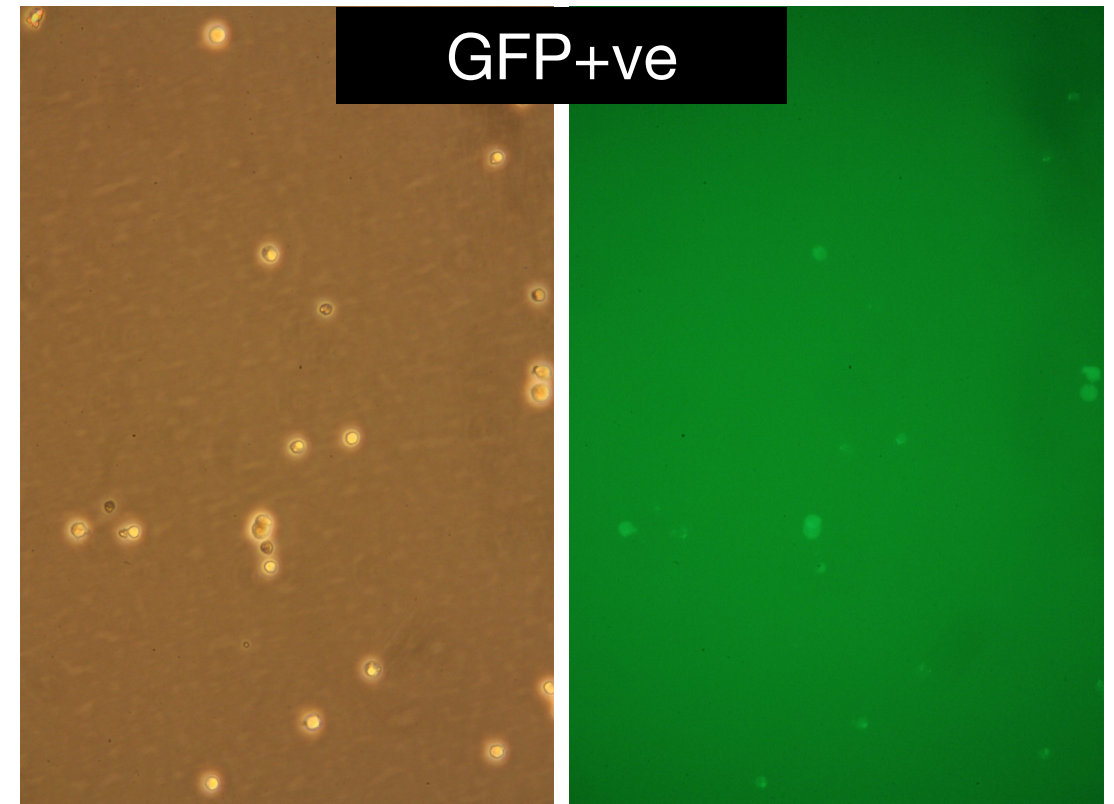
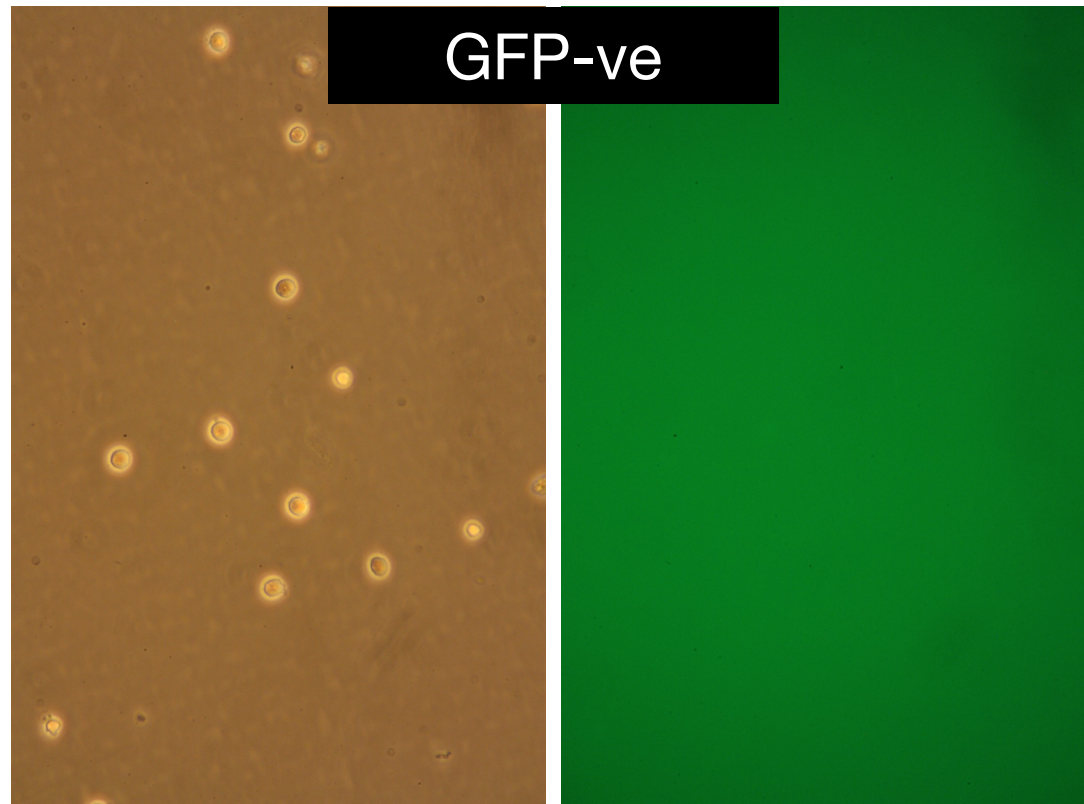


Cdk6^{T2A-td-sfGFP/T2A-td-sfGFP}



FACS sorted cells 1 day in vitro
Live cell fluorescence

Cdk6^{T2A-td-sfGFP/+}



Cdk6^{T2A-td-sfGFP/T2A-td-sfGFP}

