

# Comparing marker expression of iPSC-derived and primary astrocytes

*Susanne Zach*

*Boehringer Ingelheim Pharma GmbH & Co. KG*

*Central Nervous System Discovery Research*

*Biberach an der Riss, Germany*

## **Axol iPSC-Derived Mature Astrocytes**

- Cat. No.: ax0084, Lot. No.: 0084101
- Coating: Matrigel
- Medium: human astrocyte cell culture medium, + supplement A/B and C, + 1% P/S
- Density: 16000c/96well (moderate cell death on DIV1)

## **Cellular Dynamics iCell Astrocytes**

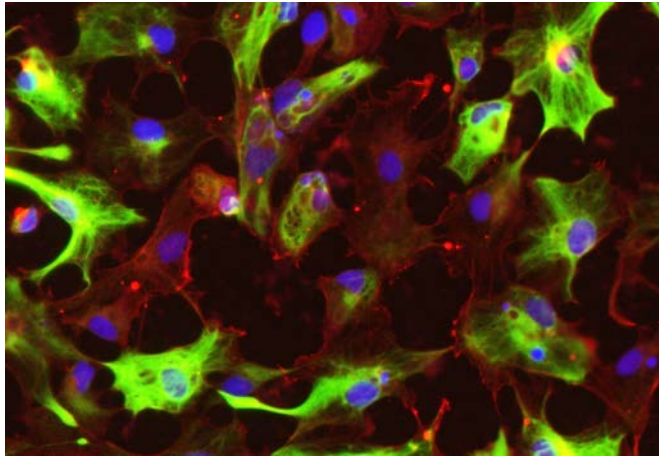
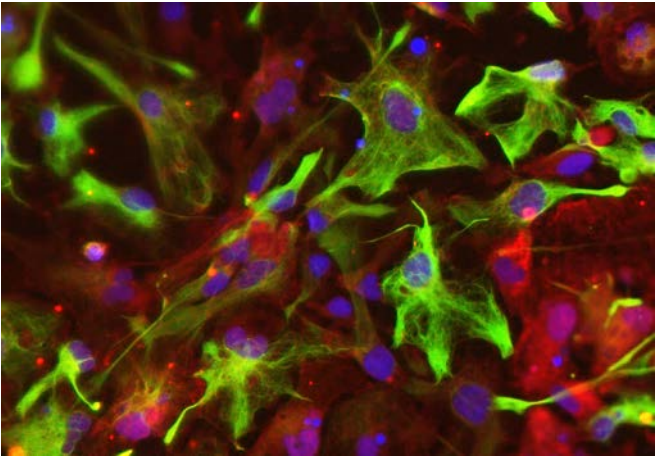
- Cat. No.: ASC-100-020-001-PT, Lot. No.: ASC001444
- Coating: Matrigel
- Medium: DMEM high glucose, + N2 supplement, + 10% FCS, + 1% P/S
- Density: 16000c/96well (only few dead cells on DIV1)

## **Life Technologies Human Primary Astrocytes**

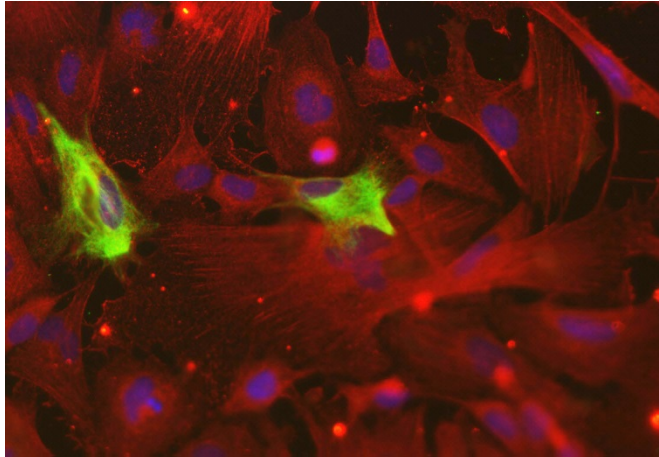
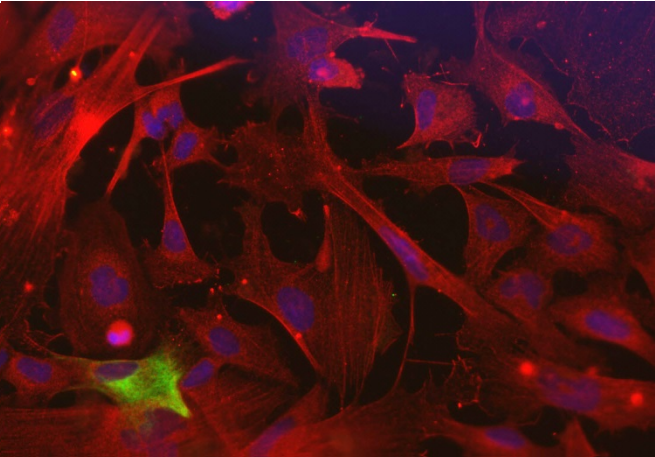
- Cat. No.: Cat. No.: K1884, Lot. No.: 1640797
- Coating: Geltrex (life technologies, A15696-01)
- Medium: DMEM high glucose, + N2 supplement, + 10% FCS, + 1% P/S
- Density: 16000c/96well (lot of dead cells on DIV1)

GFAP (green), S100 (red), Hoechst (blue)

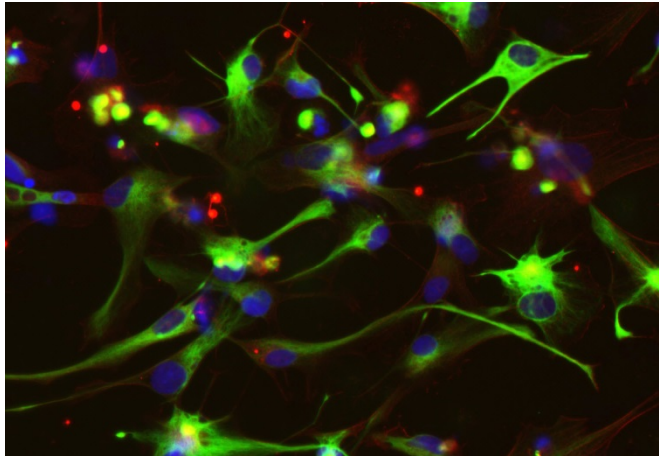
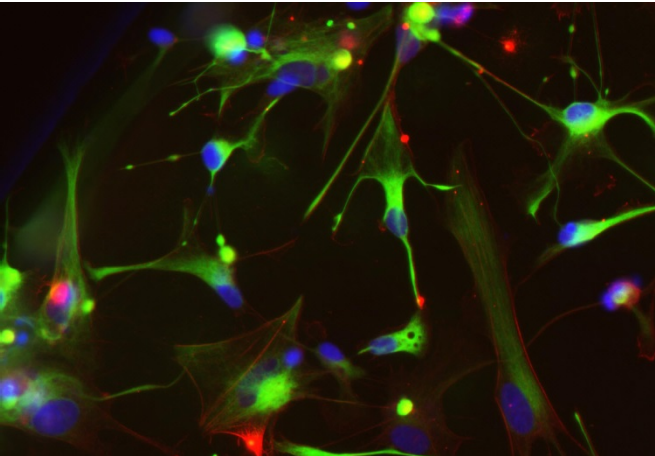
Axol



Cellular Dynamics

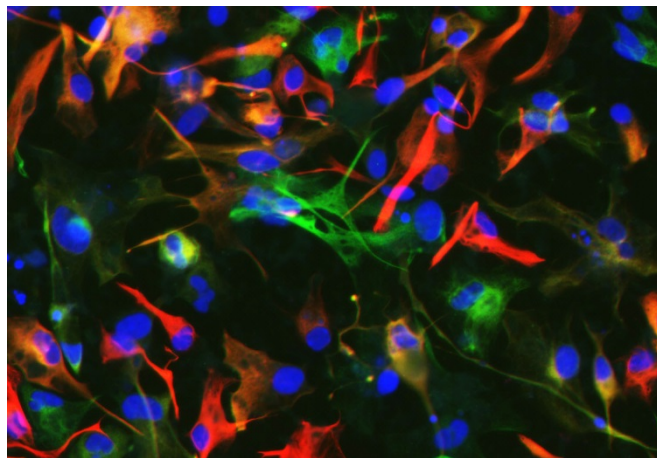
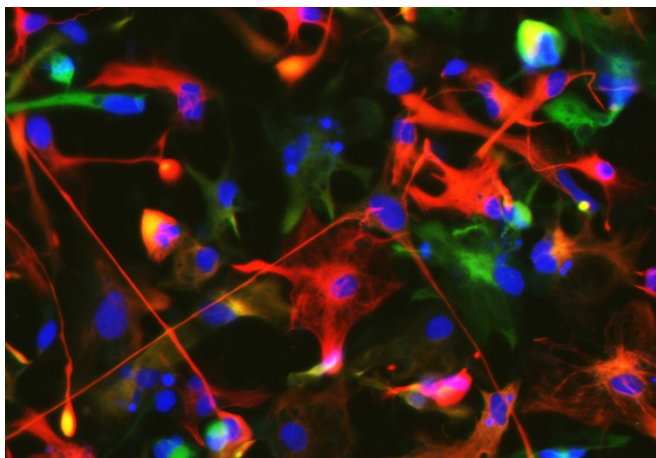


Primary (Life Tech.)

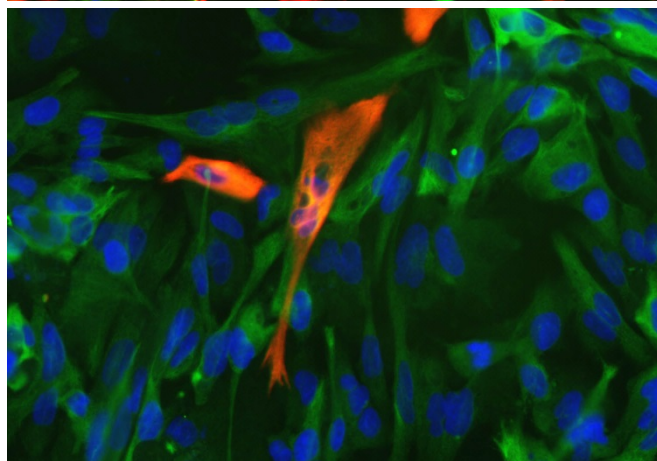
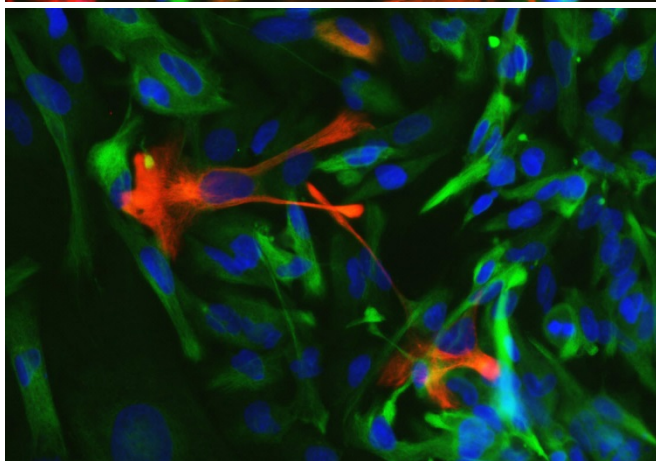


Nestin (green), GFAP (red), Hoechst (blue)

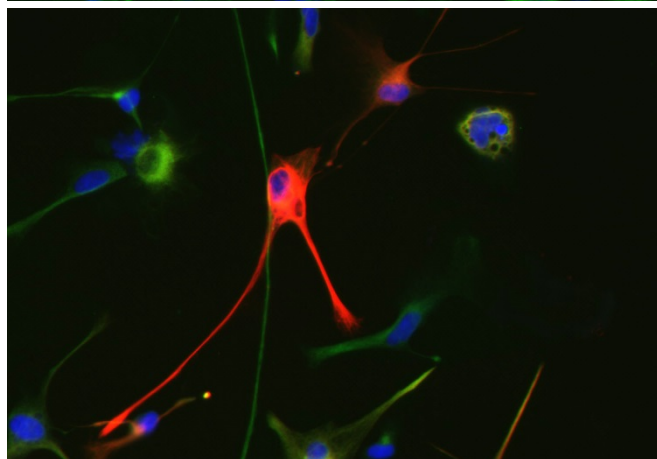
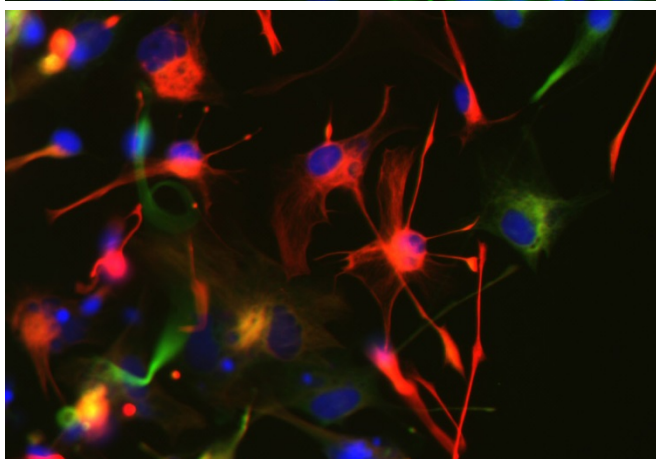
Axol



Cellular Dynamics

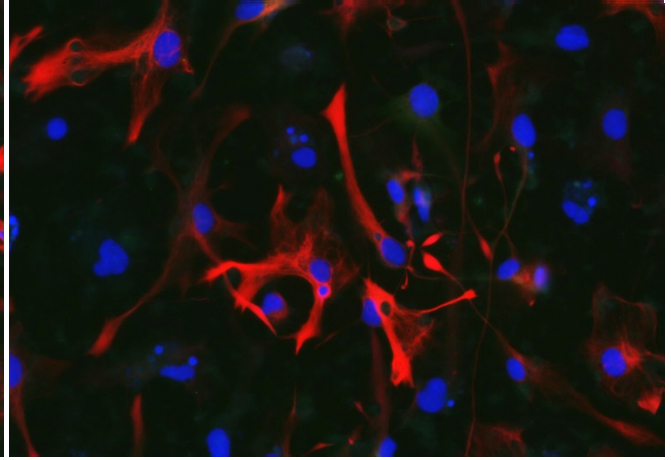
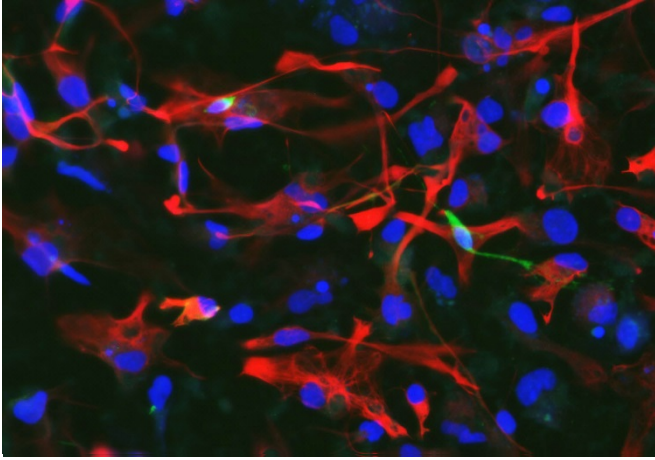


Primary (Life Tech.)

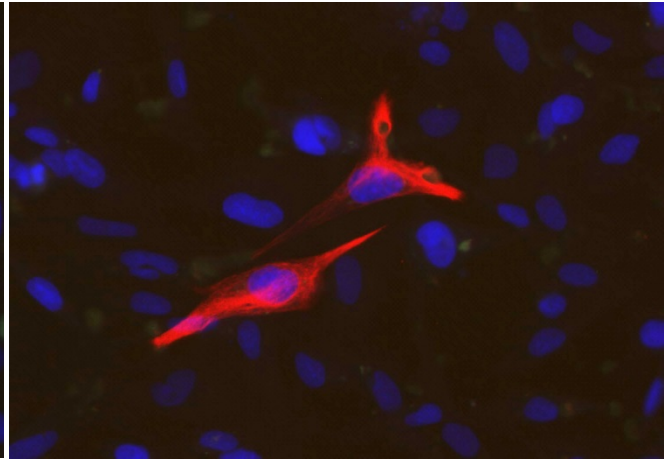
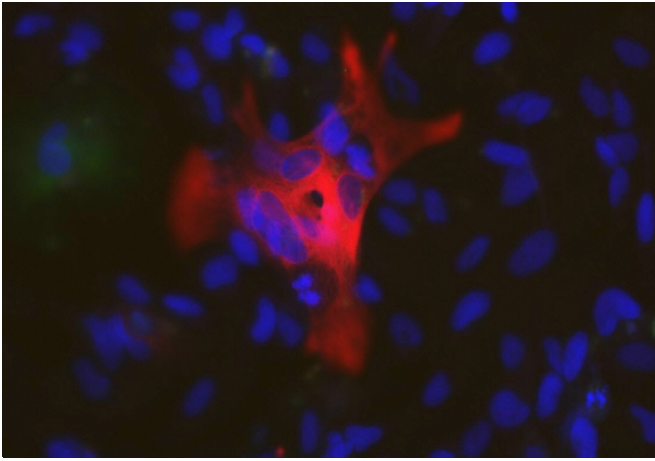


MAP2 (green), GFAP (red), Hoechst (blue)

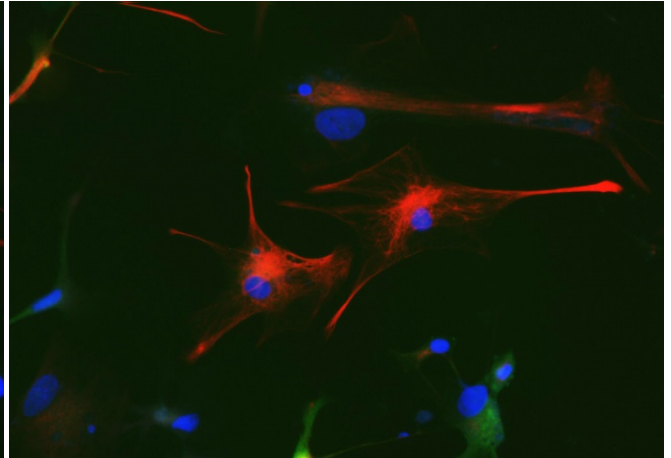
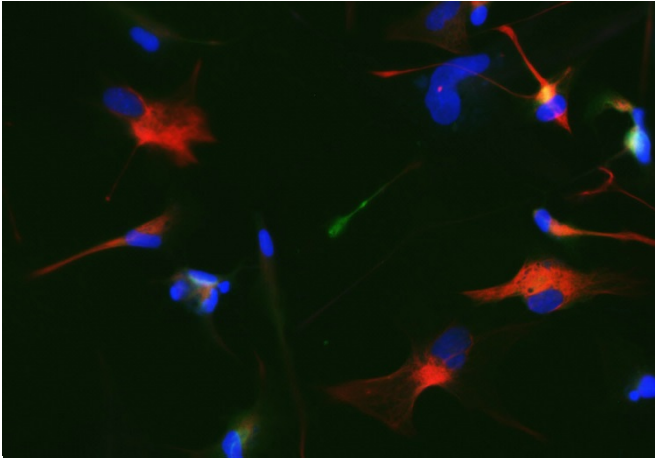
Axol



Cellular Dynamics

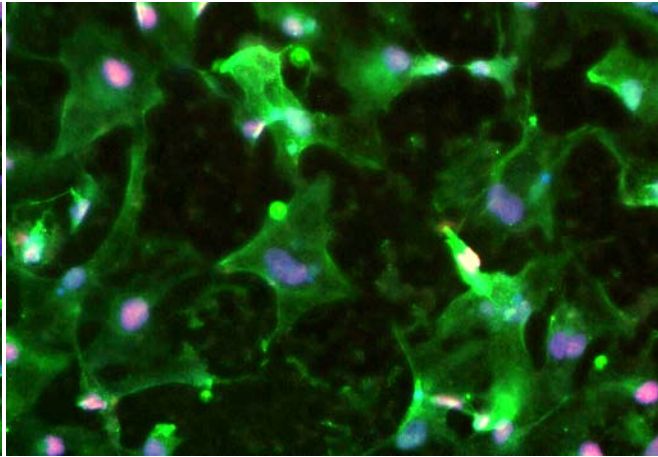
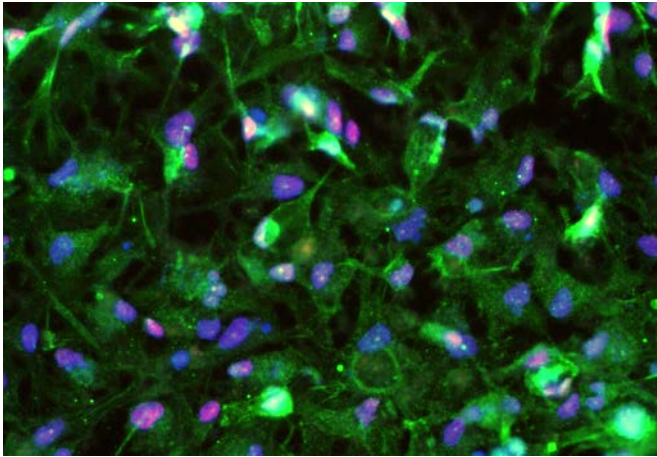


Primary (Life Tech.)

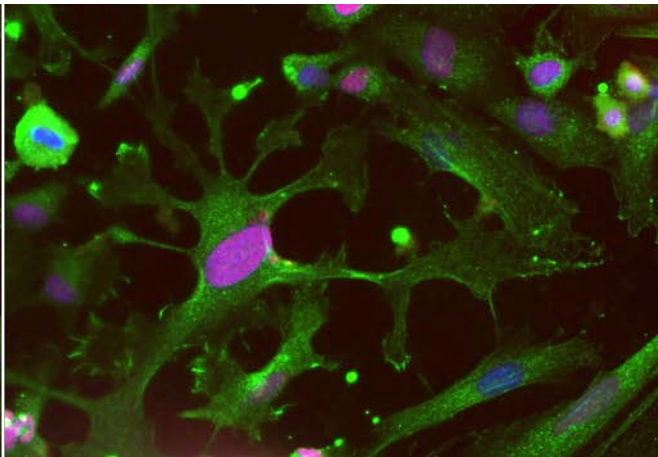
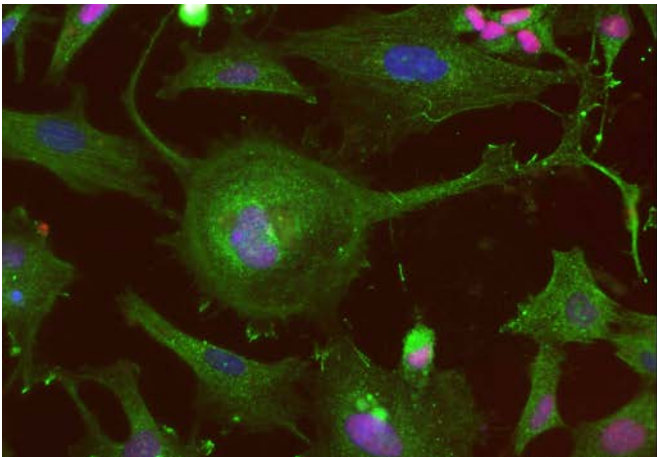


S100 (green), SOX2 (red), Hoechst (blue)

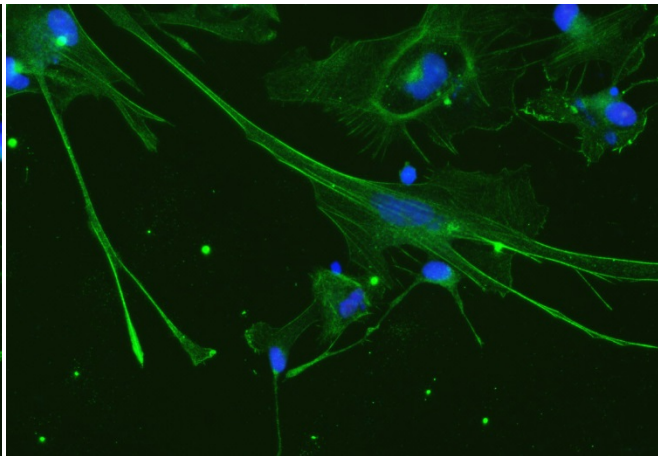
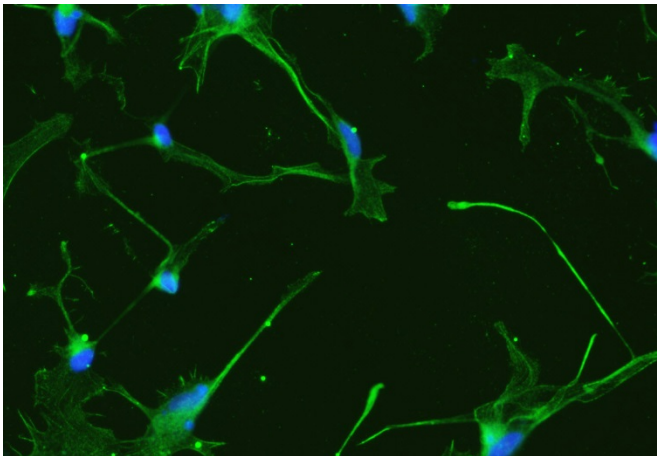
Axol



Cellular Dynamics

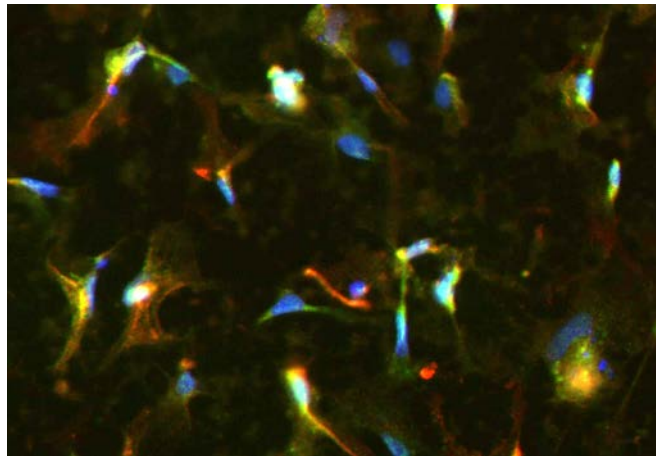
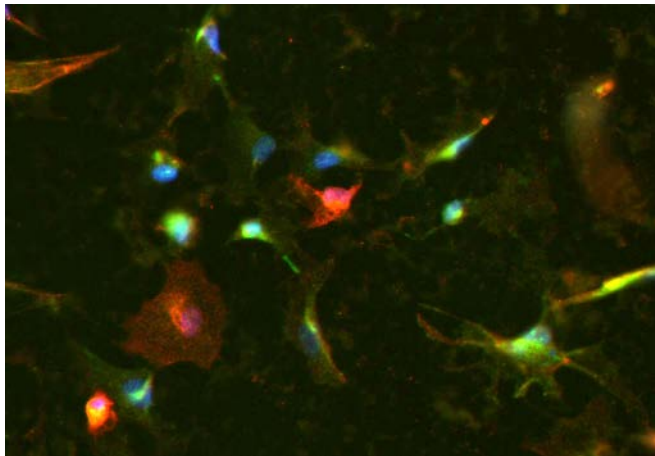


Primary (Life Tech.)

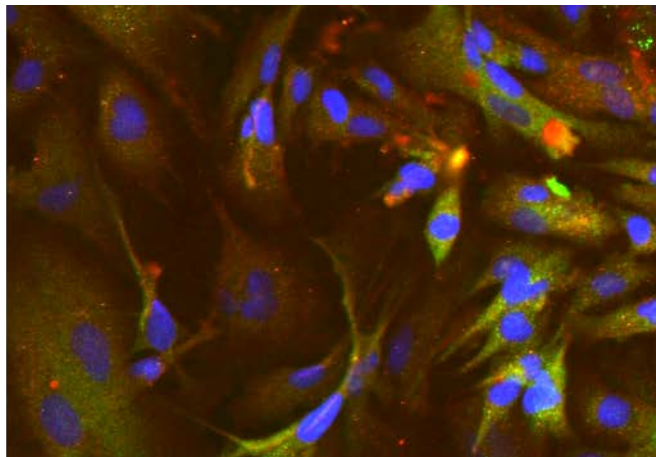
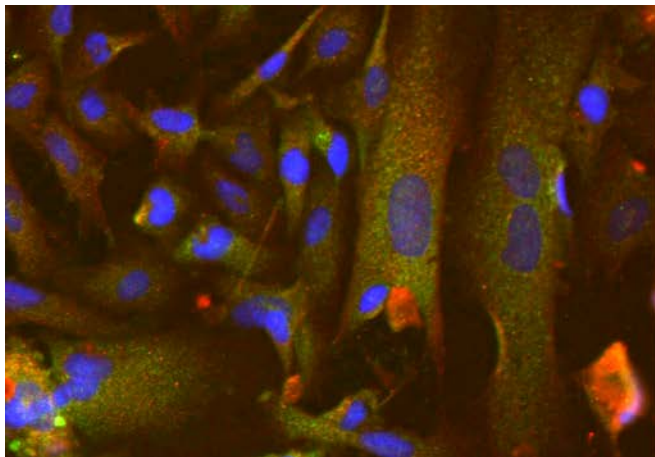


ALDH1L1 (green), S100 (red), Hoechst (blue)

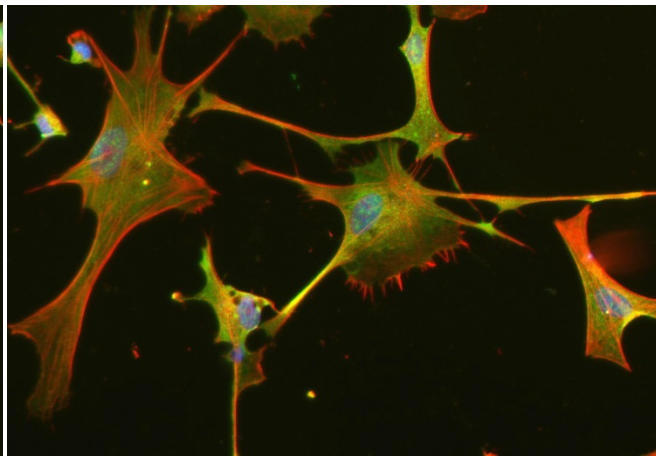
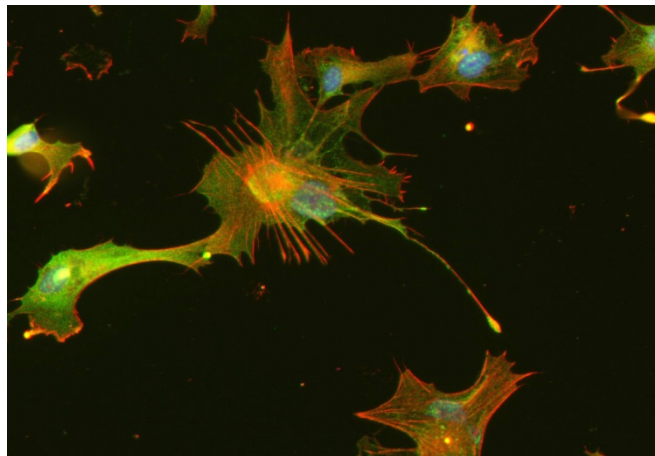
Axol



Cellular Dynamics

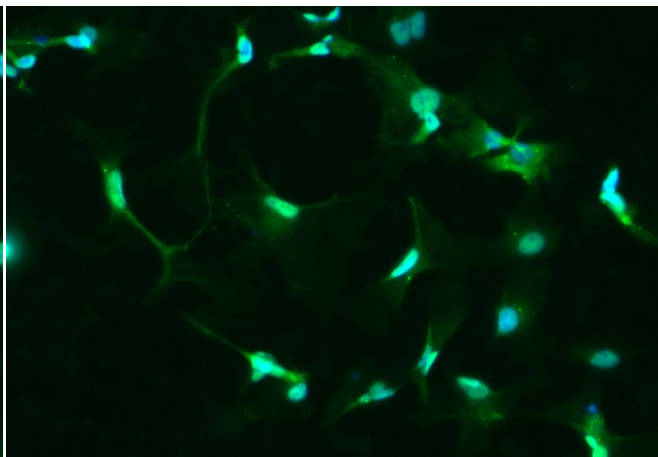
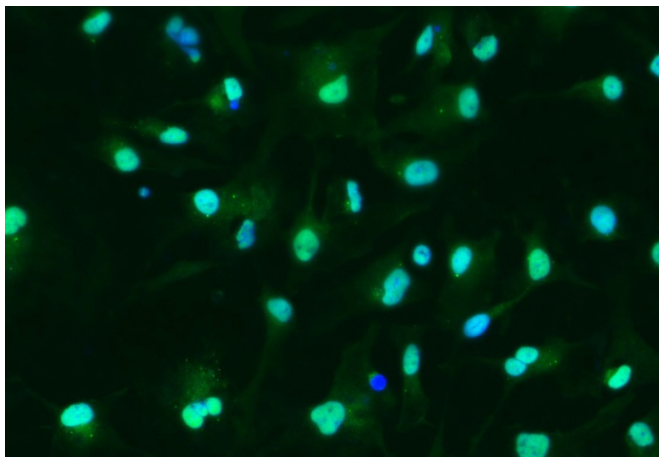


Primary (ILife Tech.)

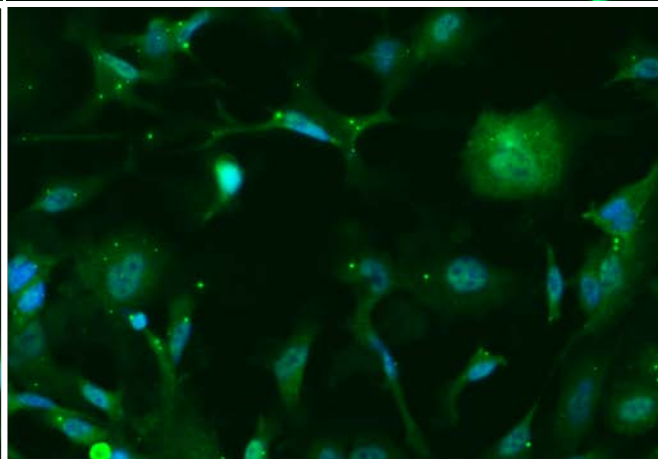
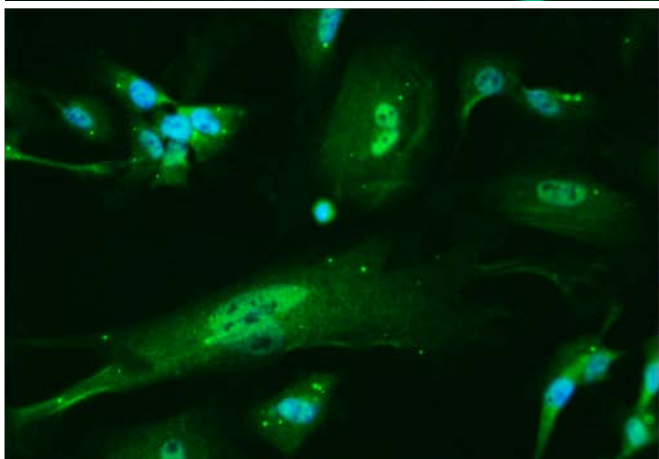


Glutamine Synthetase (green), Hoechst (blue)

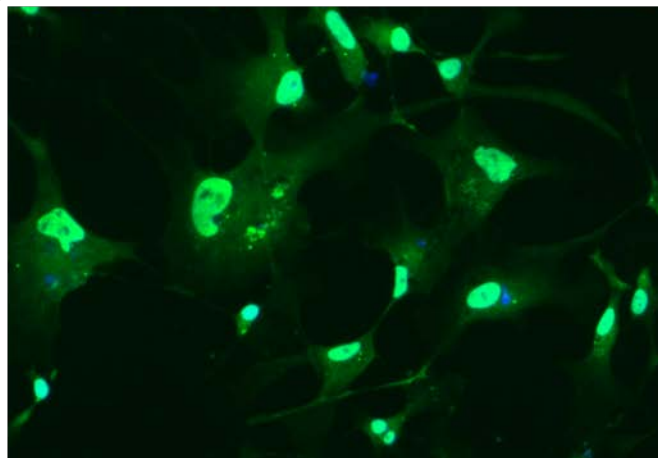
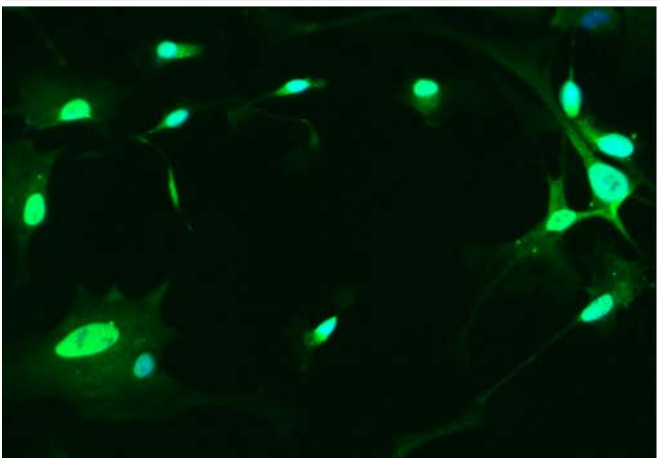
Axol



Cellular Dynamics

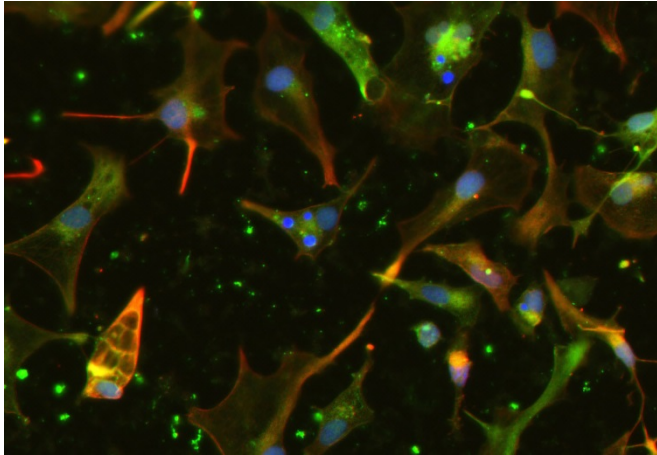
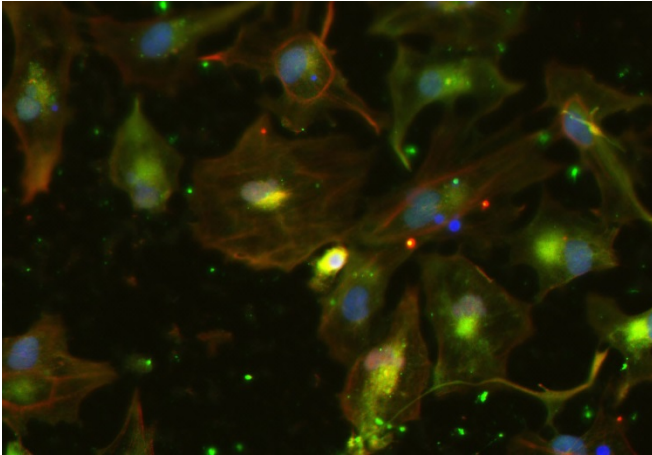


Primary (Life Tech.)

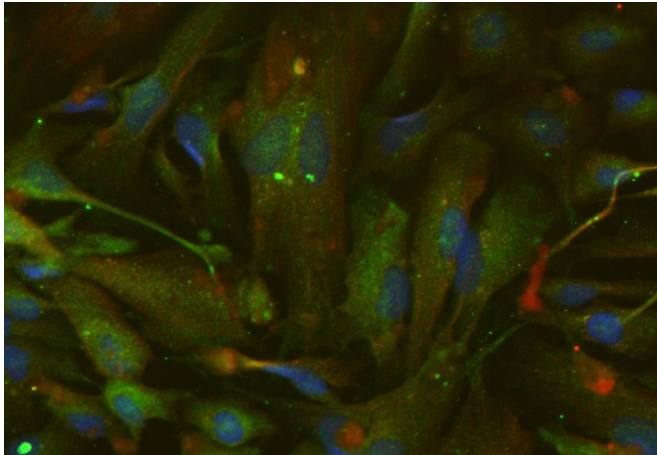
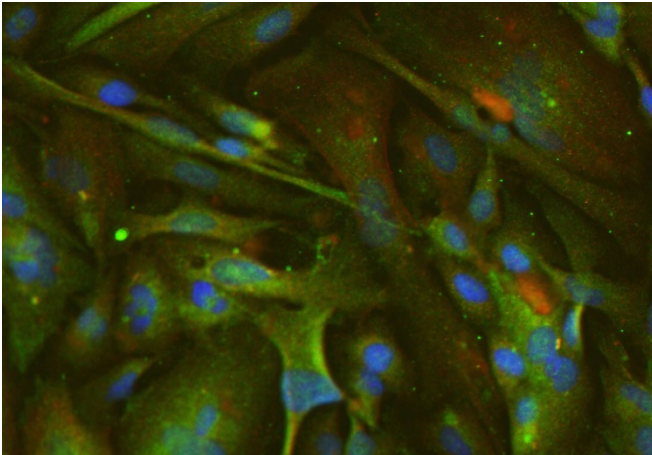


EAAT1 (green), S100 (red), Hoechst (blue)

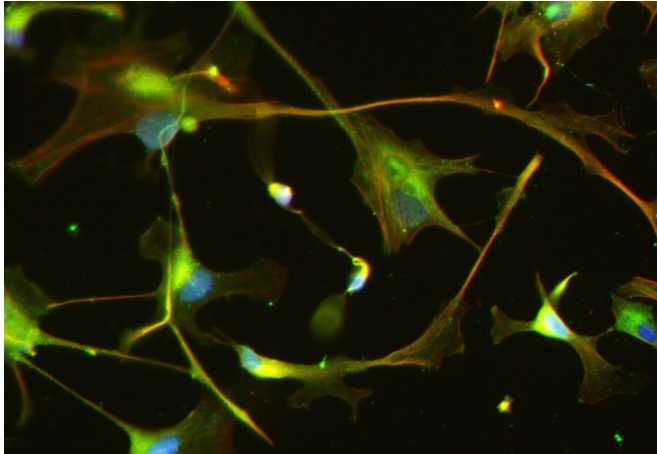
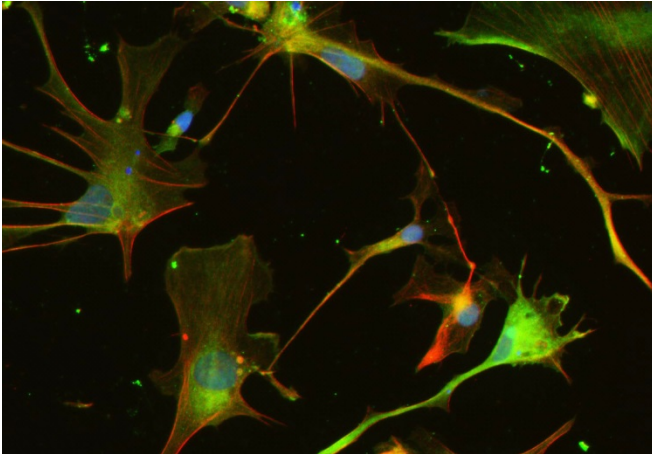
Axol



Cellular Dynamics



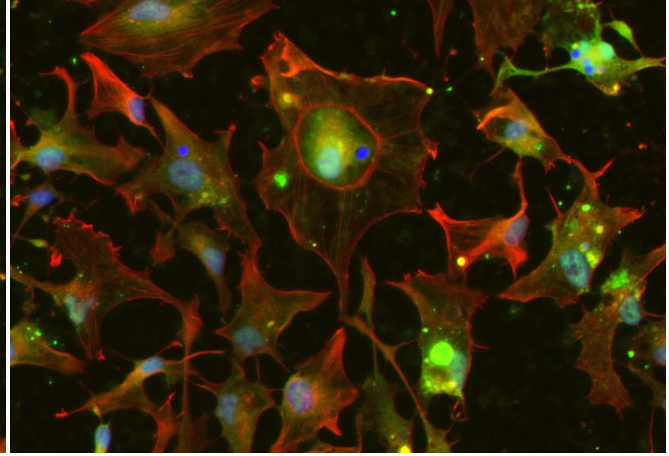
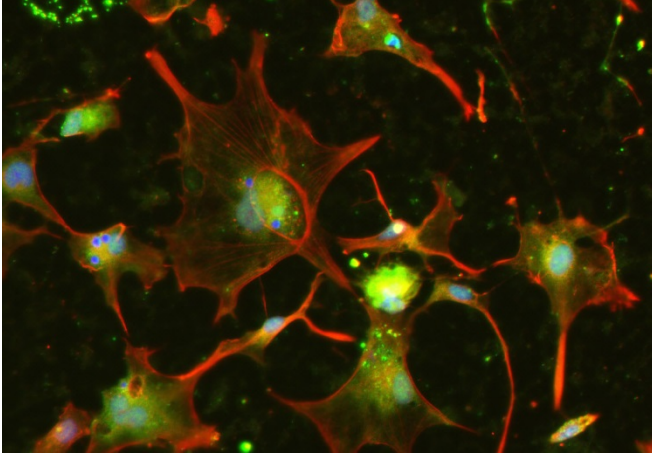
Primary (Life Tech.)



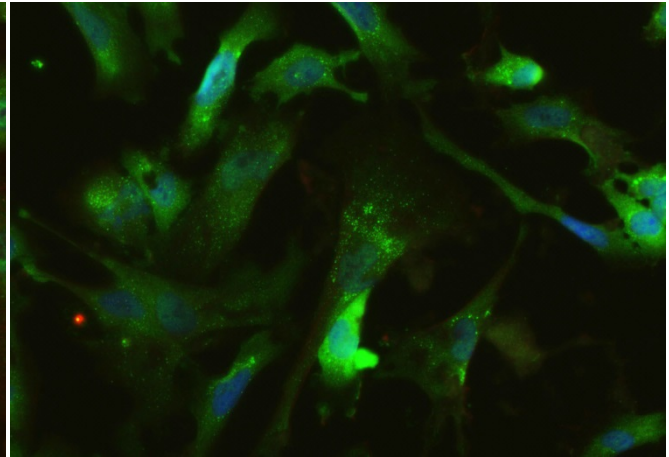
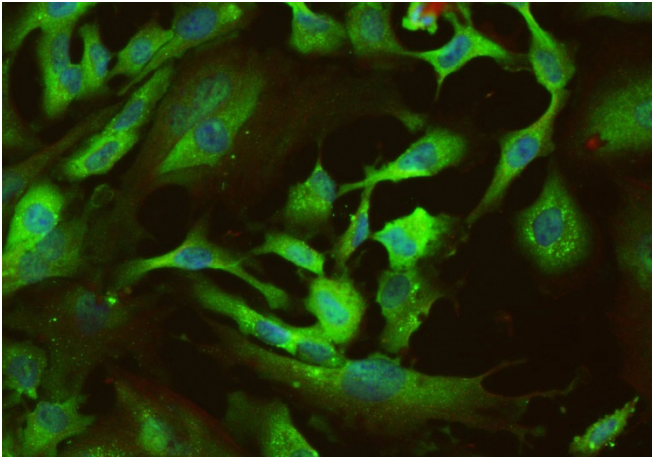


Integrin beta 5 (green), S100 (red), Hoechst (blue)

Axol



Cellular Dynamics



Primary (Life Tech.)

