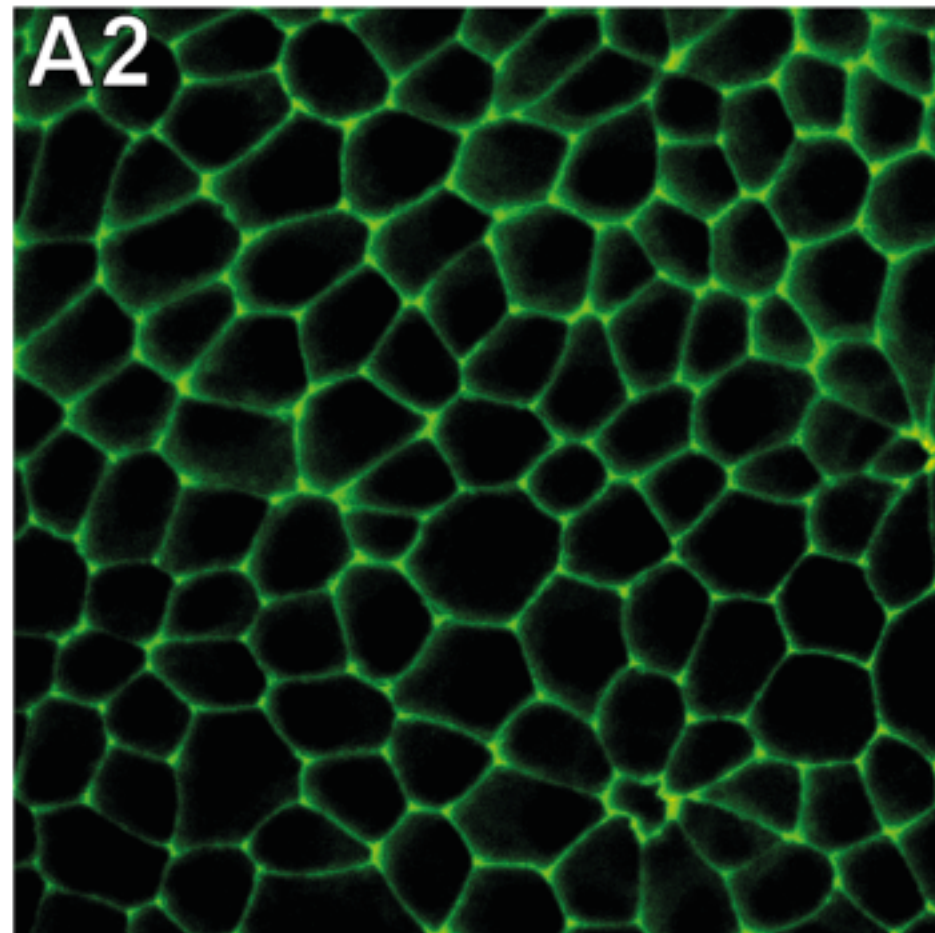


(a)



(b)

Figure 6: Confluent Madin-Darby Canine Kidney cells (MDCK II) stained with Alexa Fluor 488. The stain binds to the ZO-1 where it is located in the uppermost cell-cell connection, the tight junctions, at the lateral cell membrane of polarised epithelia. They form a physical barrier to control the lateral flux of ions, macromolecules, pathogens, and other solutes within the paracellular pathway. (a): A contrast image. (b): Fluorescence image for zonula occludens-1 (ZO-1)