



Red: 70 kDa dextran
Green: 2 MDa dextran

Supplementary Fig 1. Representative two-photon laser scanning microscopy (TPLSM) image of the cerebral vessels tagged with a different molecular weight of dextran. A, C, and E: Representative TPLSM images of the arteriole, capillary, and venule. Two different dextran signals overlap well. The yellow line indicates where the radial signal profile was measured. B, D, and F: The radial dextran signal profiles of the arteriole, capillary, and venule. At the vessel edge, two dextran signals overlap each other. Red: 70 kDa dextran Texas Red[®], Neutral D-1830, Thermo Fisher Scientific, Waltham, MA, USA. Green: 2 MDa dextran FITC conjugated. Scale bar: 100 μm (A,E), 30 μm (C).