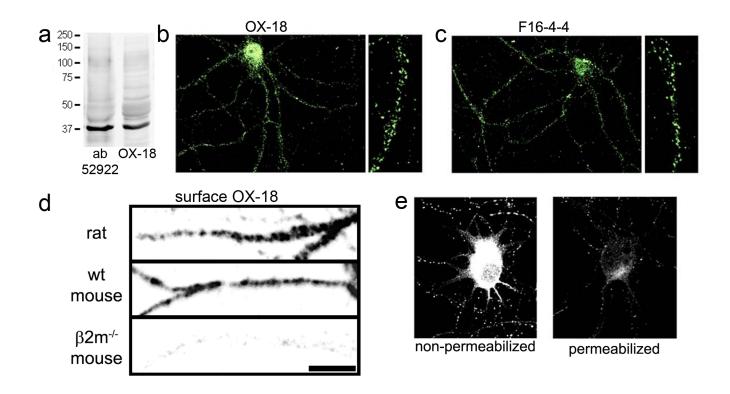
MHC Class I negatively regulates synapse density during the establishment of cortical connections

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Suppl. Fig. 1. OX-18 specifically recognizes MHCI molecules in developing visual cortical neurons. (a) Western blot immunoprobed with two anti-Rt1A MHCI antibodies (OX-18 and ab52922) show similar band patterns. (b-c) Two distinct anti-MHCI antibodies (OX-18 and F16-4-4) show similar immunostaining patterns in cultured 7 d.i.v. rat visual cortical neurons. (d) OX-18 was used to stain non-permeabilized 8 d.i.v visual cortical cultures from rat (top), wild type mice (middle), and $\beta 2m^{-/-}$ mice (bottom). The images show dendritic sMHCI. All images were taken at the same confocal settings for equivalent comparison. The intensity of OX-18 surface staining is drastically decreased in dendrites from $\beta 2m^{-/-}$ mice compared to WT mouse and rat cultures. Scale bar = 5µm. (e) sMHCI staining of a 7 d.i.v. neuron stained without permeabilization (left) and after permeabilization (right). Both the pattern and intensity of sMHCI staining decreases after permeabilization.