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Cover photograph (Copyright © 2013, American Society for Microbiology. All rights reserved.) A midsagittal section of mouse developing cerebellum at embryonic day 18.5 immunostained for Pax6 (green; progenitor cells in the anterior rhombic lip and granule precursor cells in the external granular layer) and Tuj1 (red; postmitotic neuronal cells). Hoechst (blue) marks all nuclei. Co-Smad-independent canonical bone morphogenetic protein signaling is critical for the specification process of progenitor cells in the anterior rhombic lip during cerebellum development. (See related article on p. 1925.)