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Cover legend: This composite time-lapse image shows superecliptic-pHluorin–transferrin-receptor fluorescence signal in a cultured hippocampal pyramidal cell. The pH-sensitive fluorophore conjugated to the transferrin receptor serves as an optical reporter of recycling endosome exocytosis, a process critical for synaptic potentiation. Posttranslational modification of the synaptic scaffold protein AKAP79/150 by the palmitoyl-acyltransferase DHHC2 is crucial for the regulation of recycling endosome exocytosis. For more information, see the article by Woolfrey et al. (pages 442–456).

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