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Cover picture: Regulatory T cells can be generated during T cell differentiation in the thymus or in the periphery. CD4⁺CD25⁺ T cells represent ~10% of mature CD4⁺CD8⁻ single-positive thymocytes. Upon recognition of their target self-antigen in the thymus, they undergo an alternative selection process that renders them anergic and suppressive. Exposure of CD4⁺CD25⁻ T cells in the periphery to antigen presented in the context of limited costimulatory signals (immature dendritic cells [iDCs] or interleukin [IL]-10) also results in the induction of suppressor T cells. Both populations can inhibit the activation of effector T cells by cell contact-dependent or cytokine-mediated mechanisms. See Commentary in this issue by Shevach, pp. F41–F45, and related articles by Jonuleit et al., Levings et al., Dieckmann et al., and Taylor et al., pp. 1285–1294, 1295–1301, 1303–1310, and 1311–1317, respectively. Cover design by Bob Crimi.

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