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**Cover picture:** Soluble recombinant domain 1 of platelet/endothelial cell adhesion molecule-1 (PECAM) interferes with transendothelial migration of leukocytes. Domain 1 is the outermost of the six extracellular Ig domains. Mice that received a chimeric protein comprised of PECAM domain 1 fused to the Fc portion of human IgG failed to mobilize leukocytes to the peritoneal cavity in response to a subsequent inflammatory stimulus. The photomicrograph shows an oblique section through a small venule in the mesentery of a mouse that received an intraperitoneal injection of thioglycollate broth 18 h previously. Note that the level of blockade is at the luminal surface, with multiple leukocytes (round or oval nuclei) apparently adherent to, yet unable to migrate across, the endothelium (elongated nuclei parallel to the venule surface). See related article in this issue by Liao et al., pp. 1349–1357.

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