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Reactivity of a monoclonal autoantibody with normal gastric mucosa detected by the indirect immunoperoxidase method. Cells to which the autoantibodies bind show dark brown staining. Reovirus produces an autoimmune polyendocrine disease in young mice. By fusing spleen cells from these animals with myeloma cells, over 50 hybridomas were isolated that synthesize monoclonal autoantibodies reactive with hormones and certain normal tissues, including the pancreas, pituitary, and stomach (X about 380). See page 304. [M. V. Haspel et al., National Institutes of Health, Bethesda, Maryland 20205]