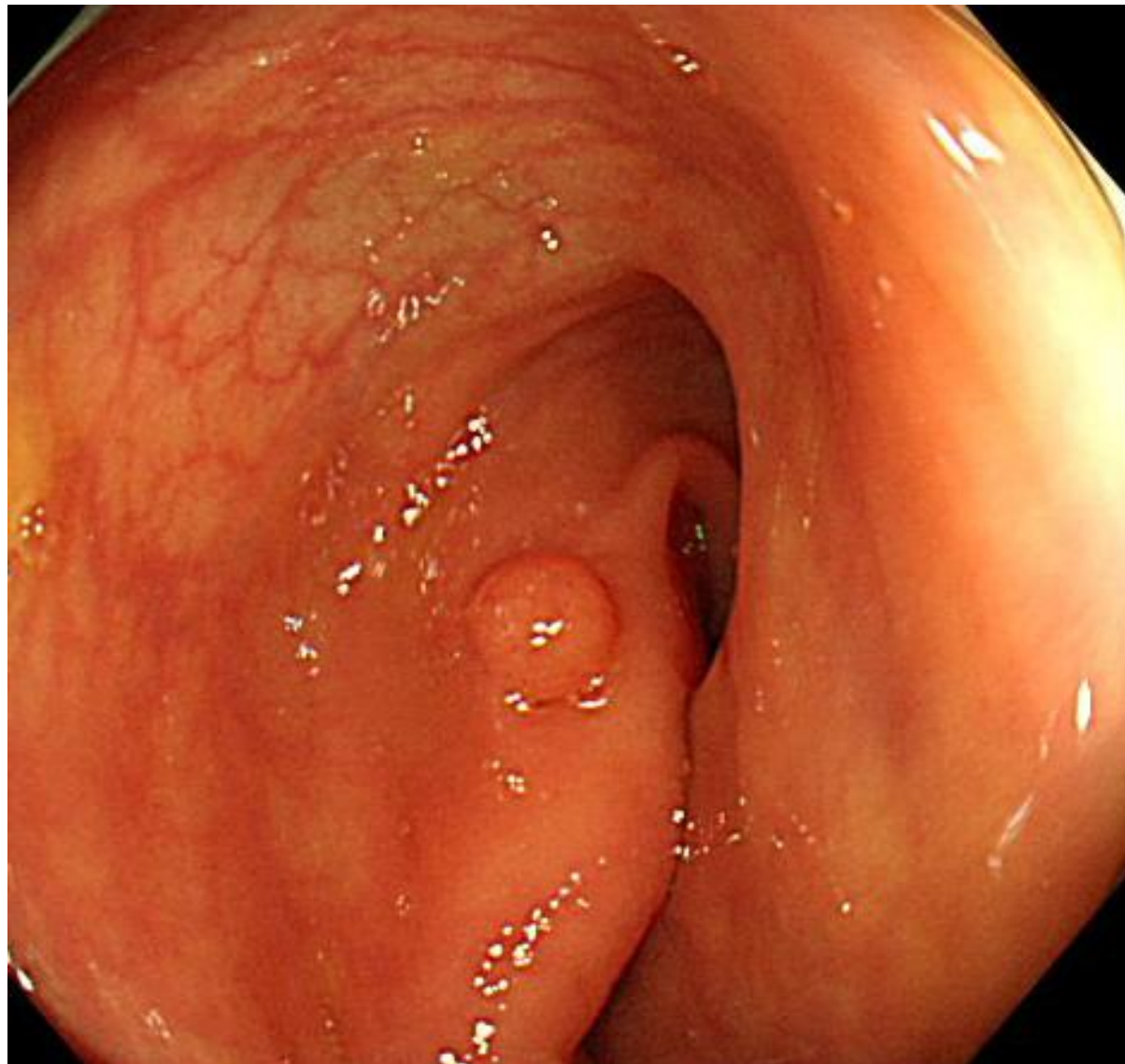


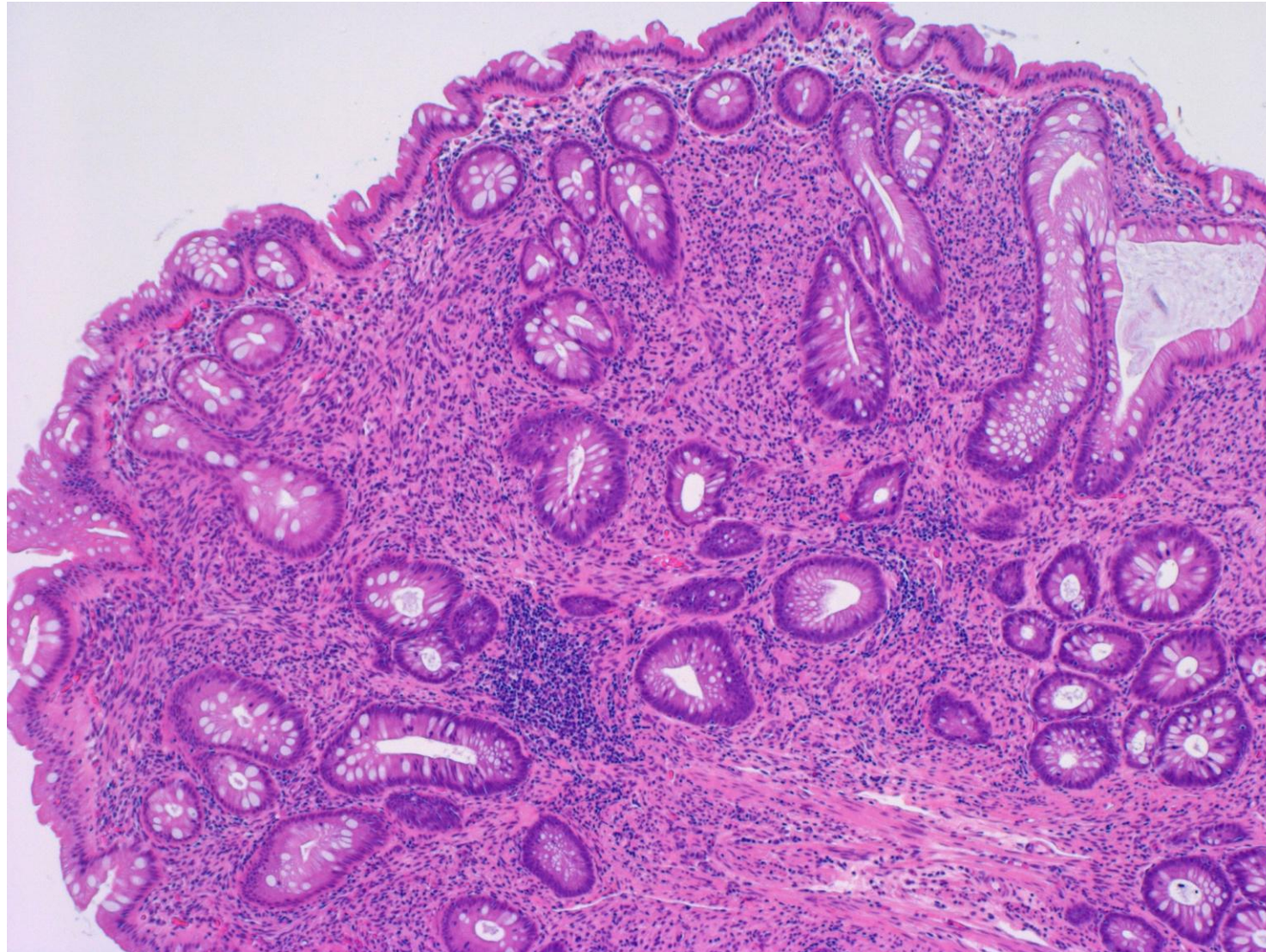
Smooth muscle hamartoma of the colon

A solitary 6 mm semi-pedunculated polyp is seen in the sigmoid colon of a 54-year-old man. Microscopically, ill-defined fascicles of spindled cells with eosinophilic cytoplasm are multifocally clustered in the widened lamina propria mucosae. The crypts remained intact. The spindled cells are separated from the tunica muscularis mucosae. Immunohistochemically, the spindled cells are immunoreactive for SMA, heavy caldesmon and desmin. Ki-67 labeling index is low (2.3%). Negative markers include vimentin, S-100 protein, EMA, CD117 (c-kit) and CD34. The ill-defined multifocal growth in the lamina propria mucosae is distinct from leiomyoma of the tunica muscularis mucosae origin. The possibility of perineurioma, Schwann cell hamartoma and neurofibroma can be excluded.

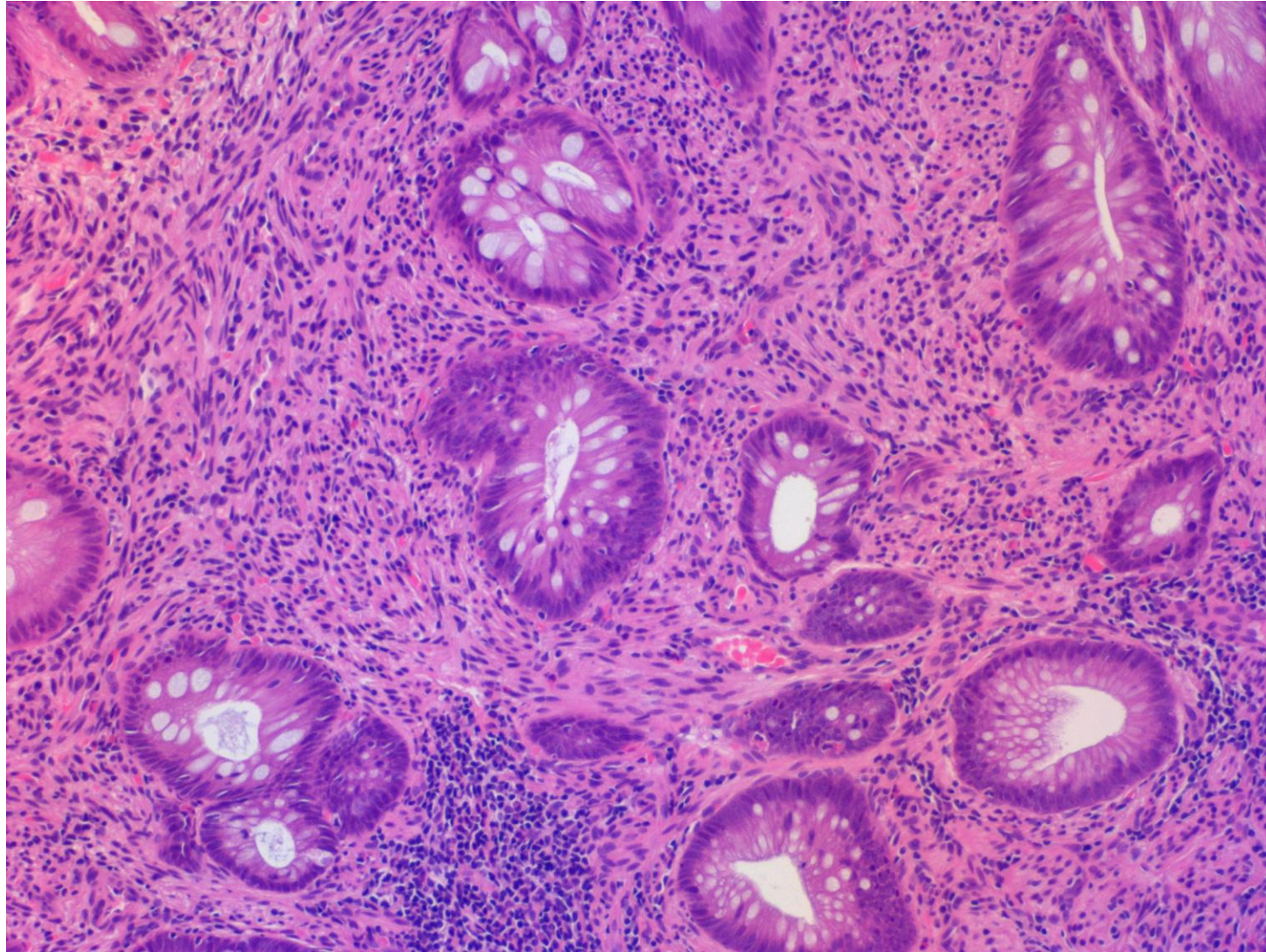
Ref.: Odani K, et al. Smooth muscle hamartoma of the colon. Hum Pathol Case Rep 2020; 21: 200388. doi: 10.1016/j.ehpc.2020.200388



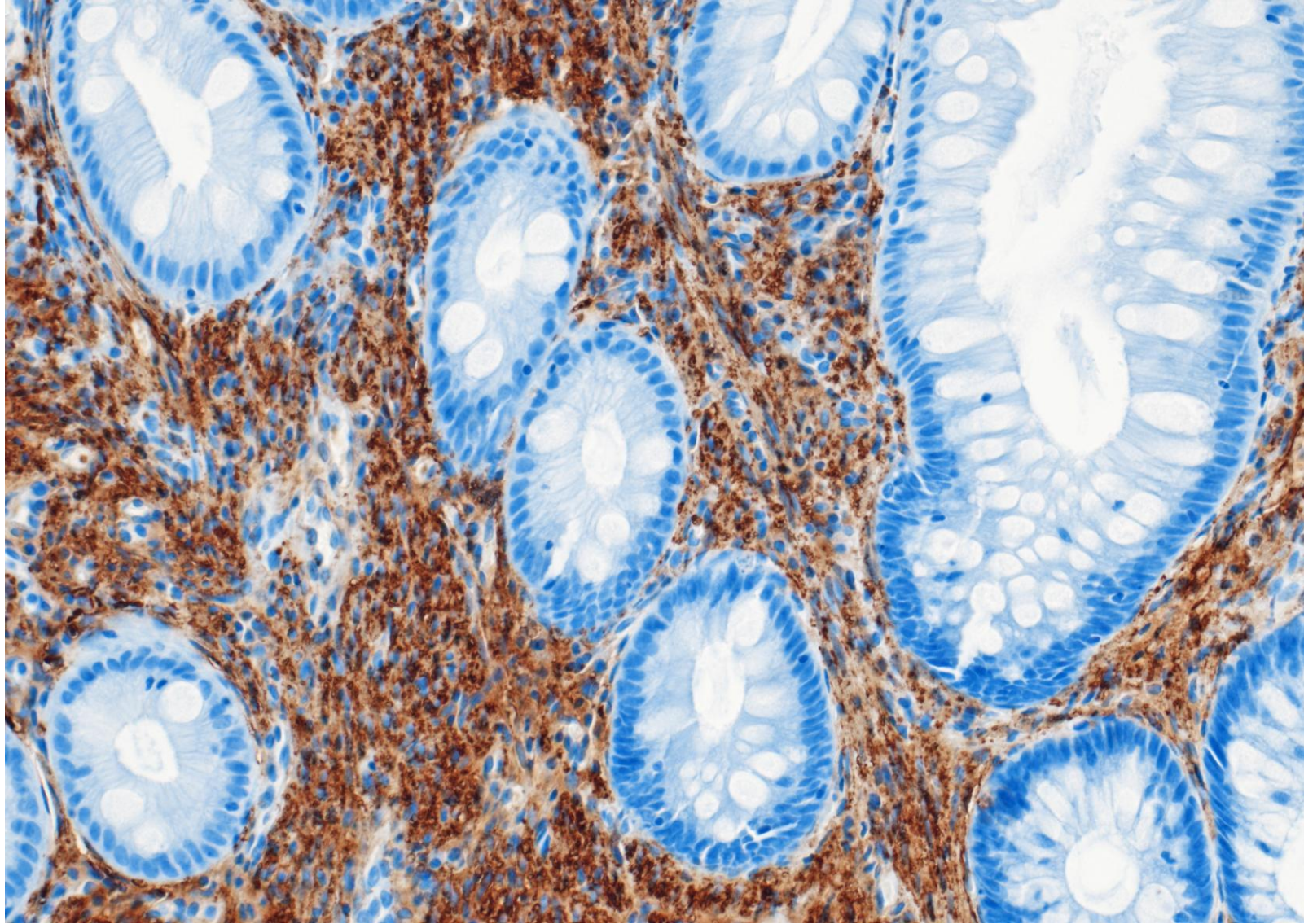
A 6 mm polyp is seen in the sigmoid colon of a 54-year-old male patient. Colonofiberscopic finding



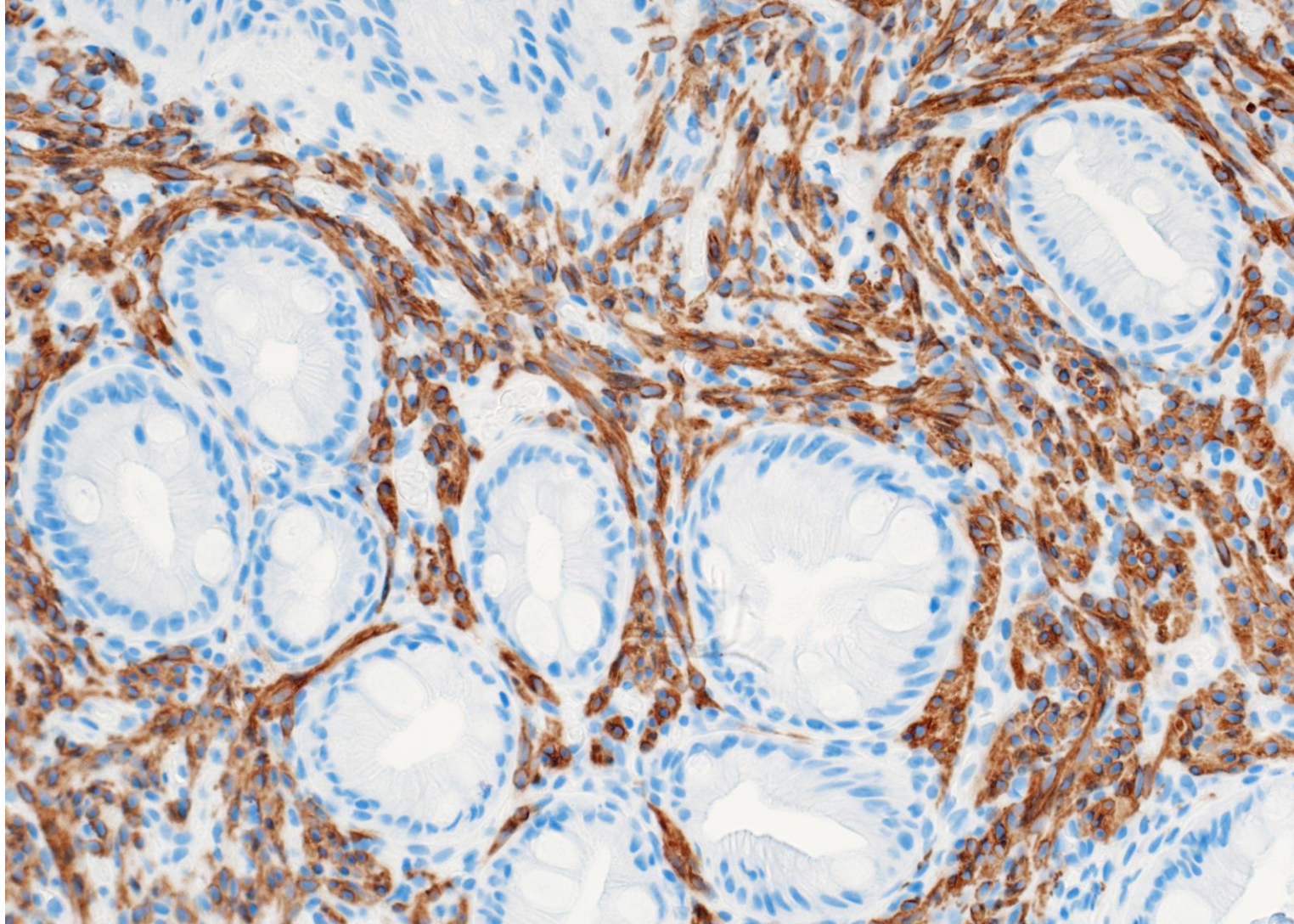
Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. Differential diagnosis includes perineurioma (fibroblastic polyp), Schwann cell hamartoma and smooth muscle hamartoma. H&E-1



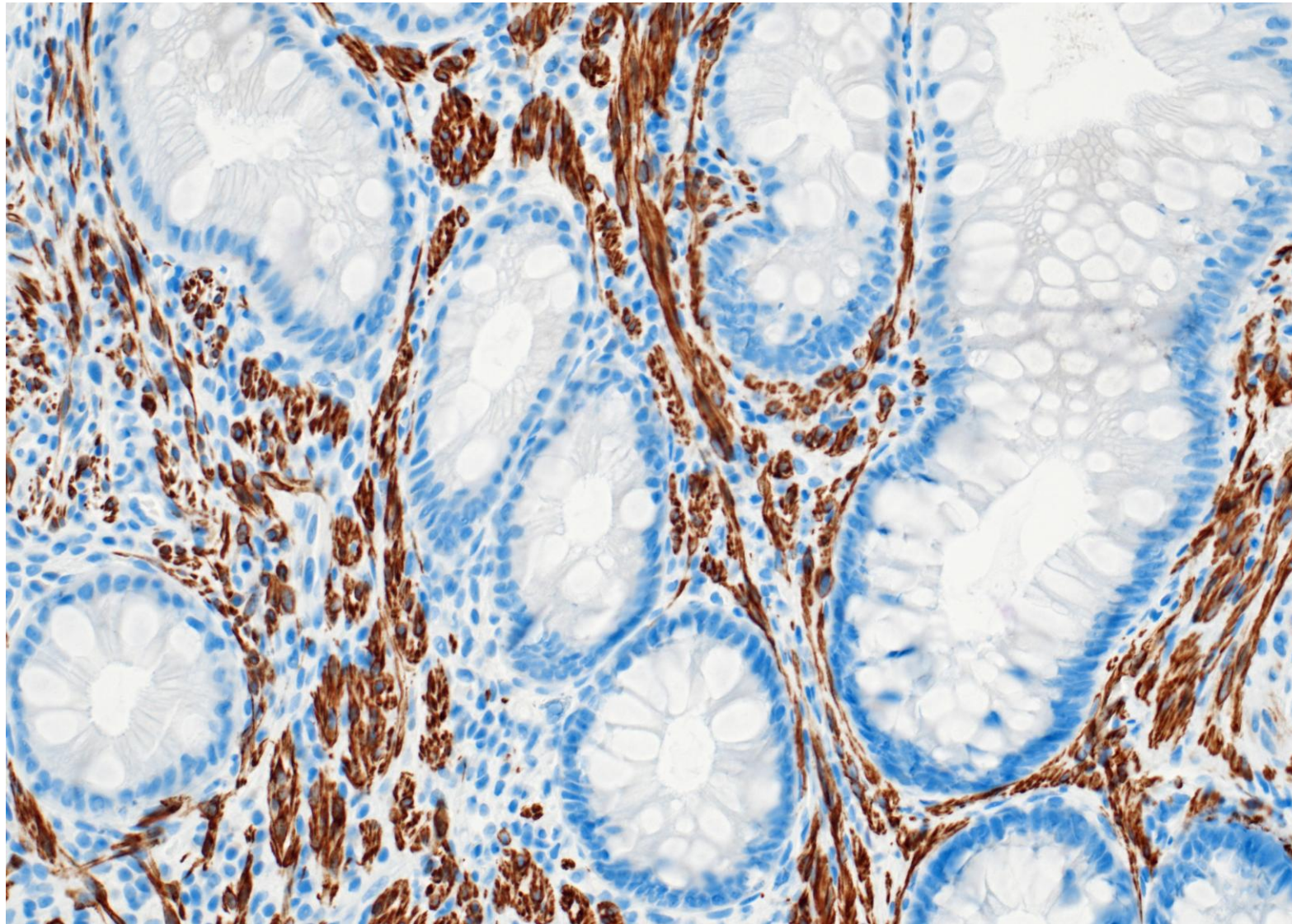
Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. Differential diagnosis includes perineurioma (fibroblastic polyp), Schwann cell hamartoma and smooth muscle hamartoma. H&E-2



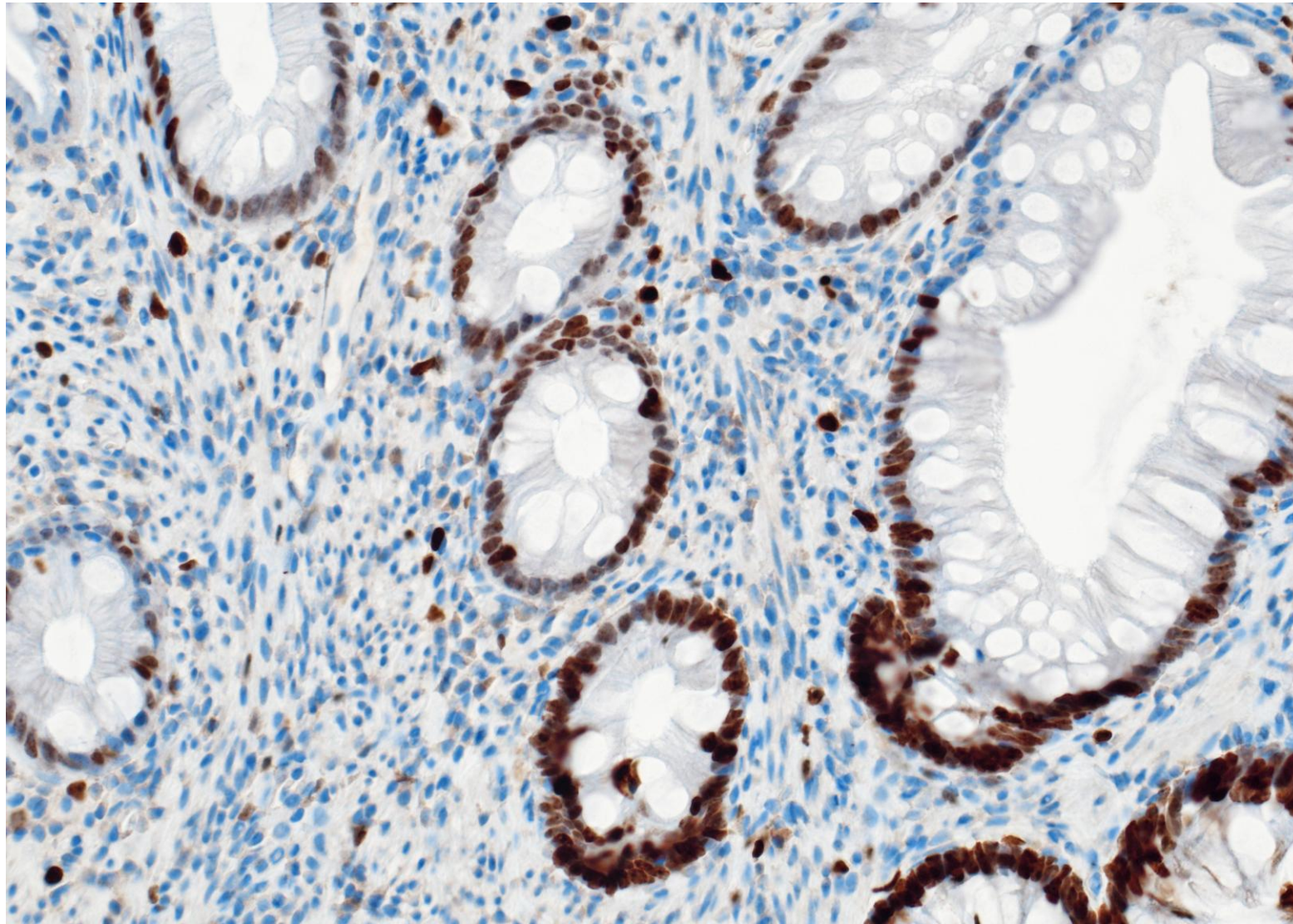
Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. The spindled cells are immunoreactive for SMA. Immunostaining for SMA



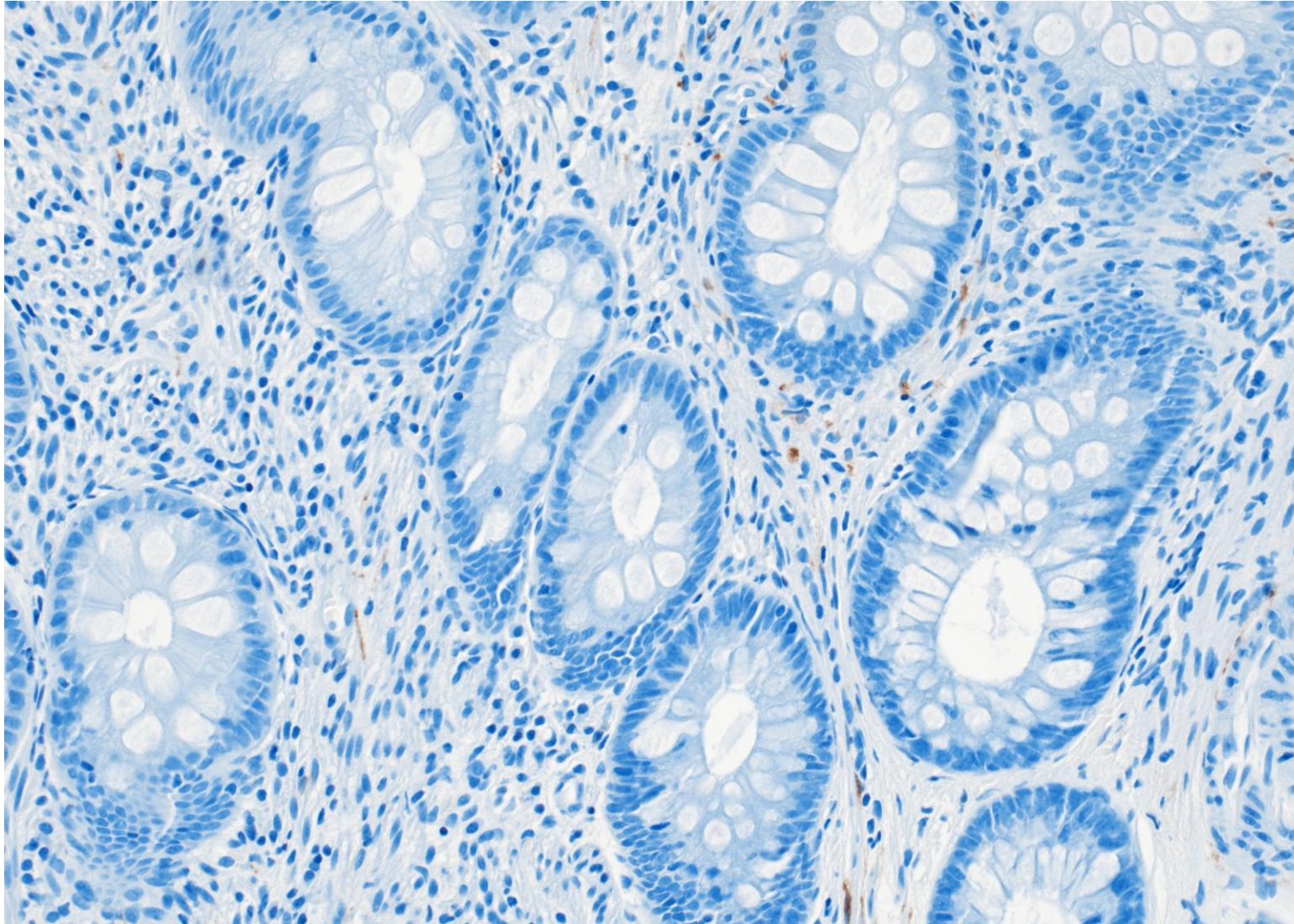
Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. The spindled cells are immunoreactive for heavy caldesmon. Immunostaining for caldesmon, heavy chain



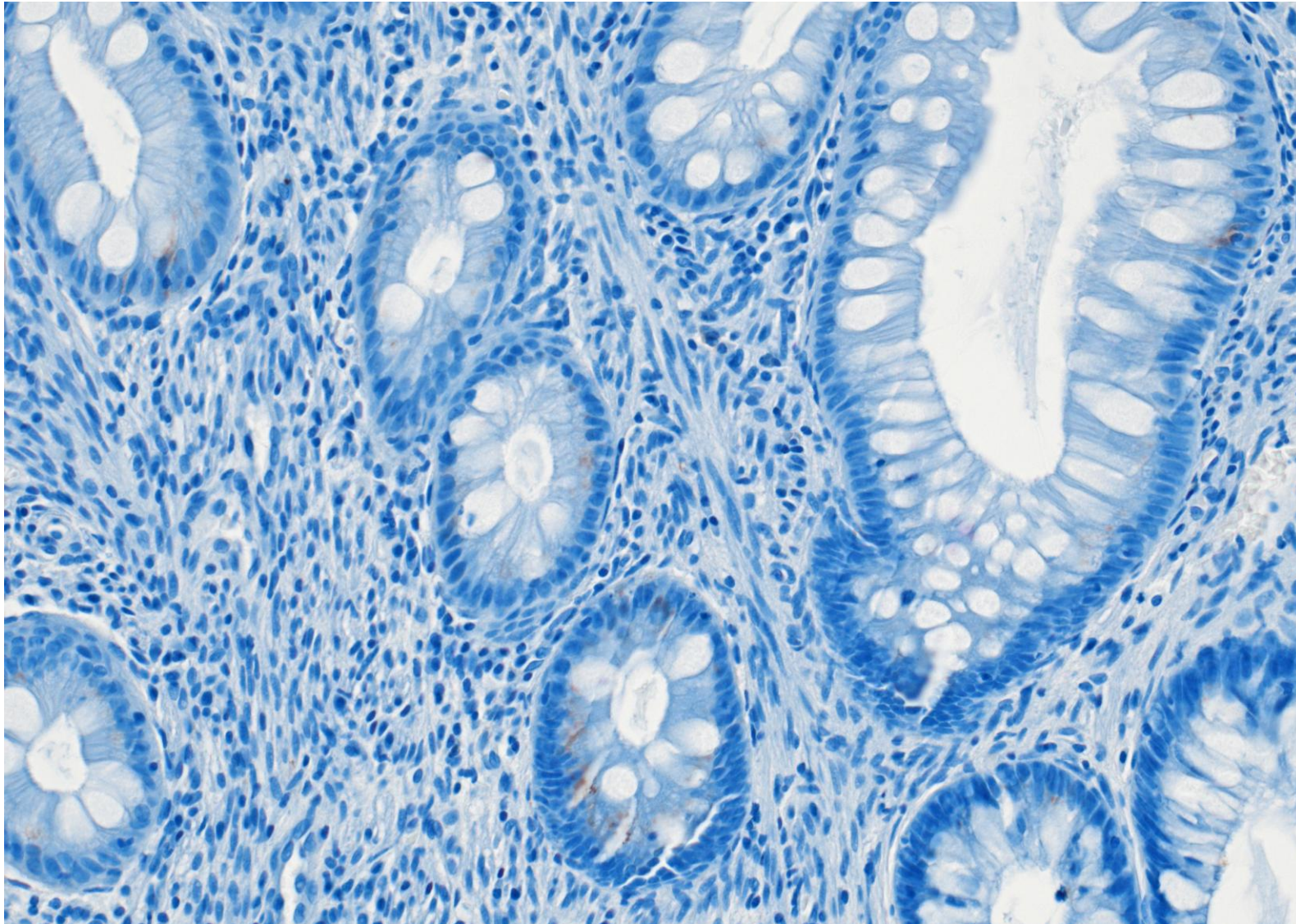
Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. The spindled cells are immunoreactive for desmin. Immunostaining for desmin



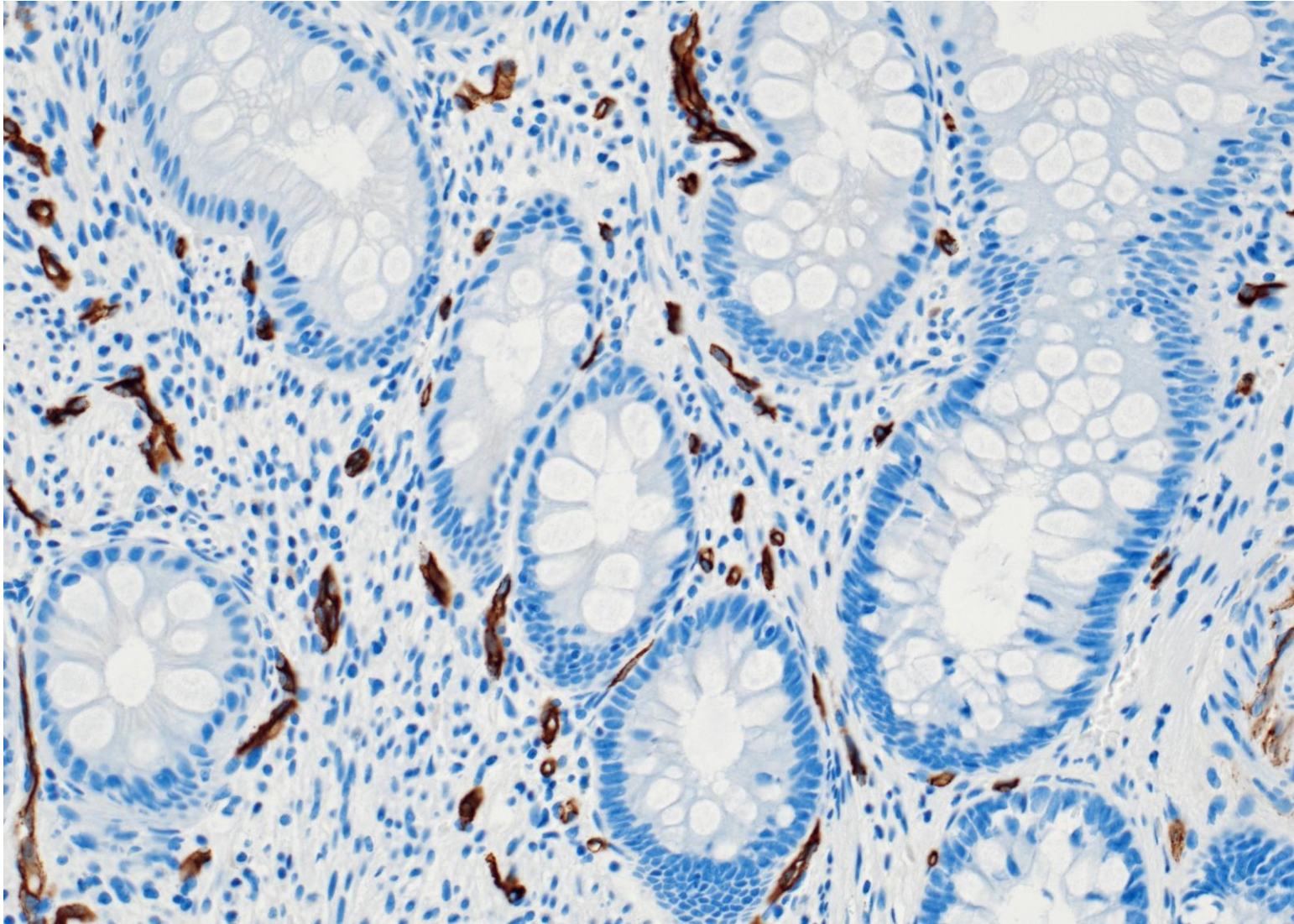
Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. Ki-67 labeling index is low. Immunostaining for Ki-67



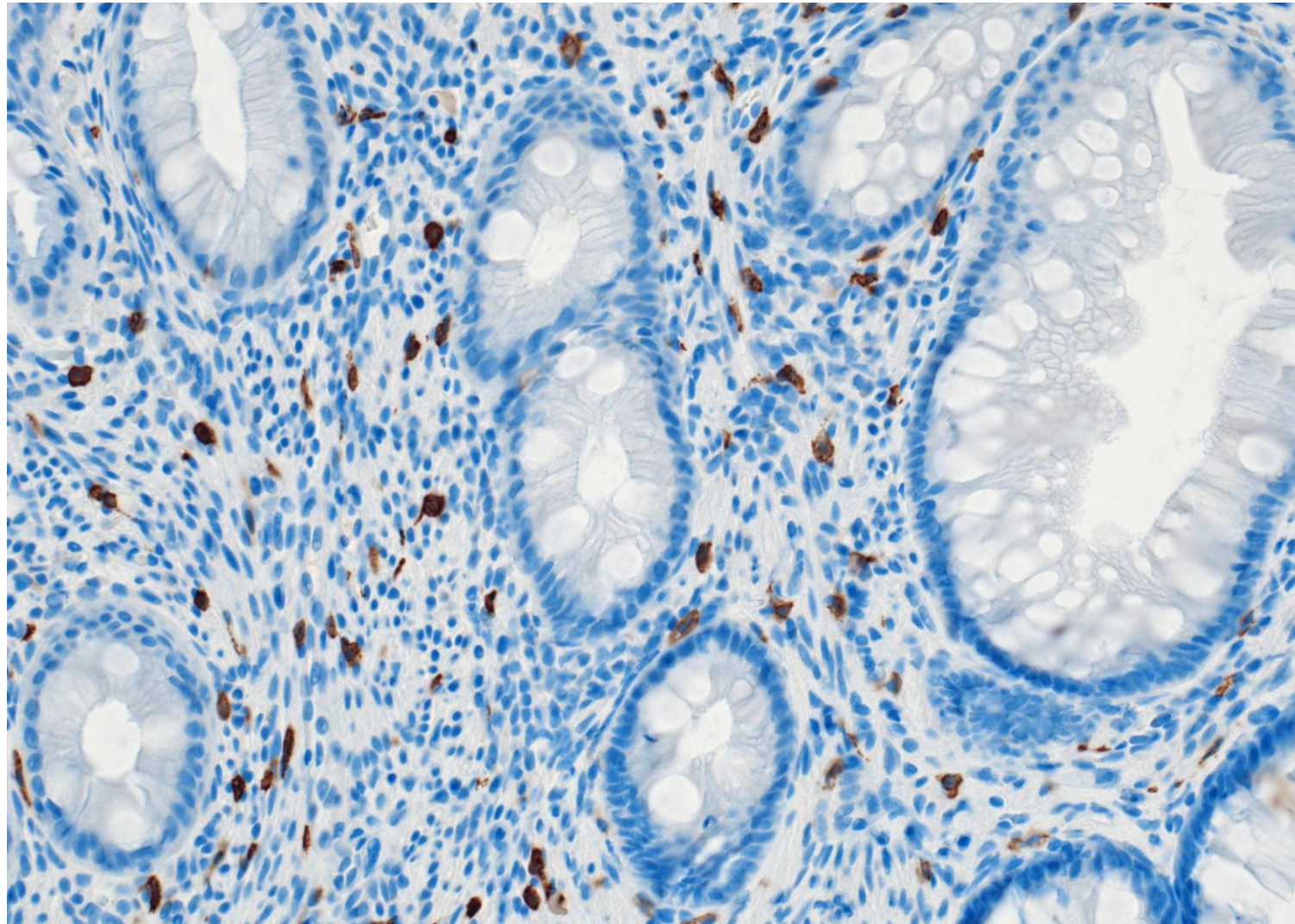
Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. The spindled cells are negative for S-100 protein. Immunostaining for S-100 protein



Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. The spindled cells are negative for EMA. Immunostaining for EMA



Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. The spindled cells are negative for CD34. Endothelial cells are positive for CD34. Immunostaining for CD34



Smooth muscle hamartoma of the colon in a 54-year-old man. Spindle cells grow in the lamina propria mucosae in an ill-defined fashion. The spindled cells are negative for CD117 (c-kit). Mast cells are positive for CD117. Immunostaining for CD117 (c-kit)