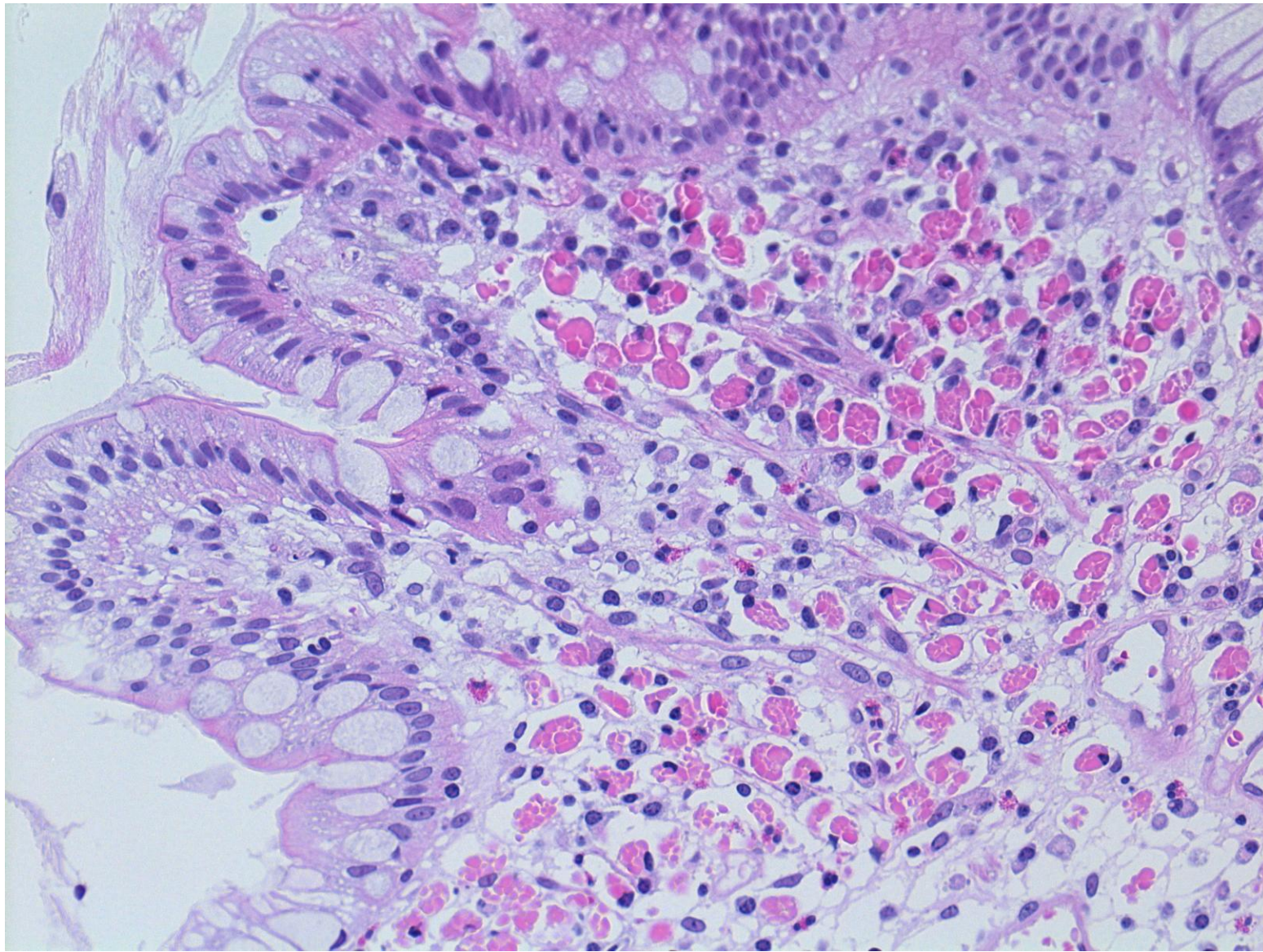


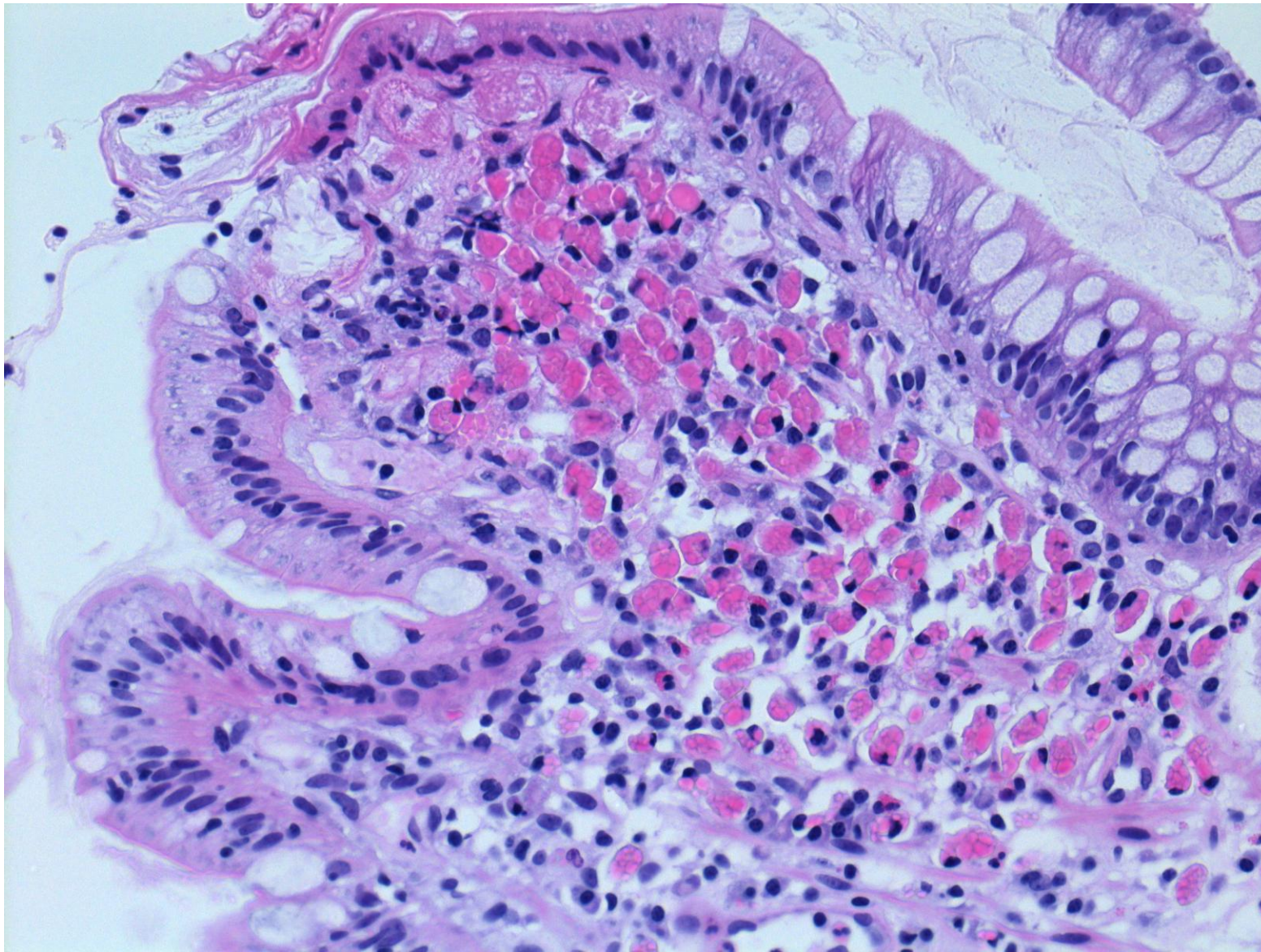
Russell body gastritis with monoclonality of IgM kappa type

Russell body gastritis showing localized monoclonal growth in the inflammatory gastric mucosa is described. A 74-year-old Japanese female with a history of dementia and atherosclerosis obliterans of the lower extremities suddenly complained of hematemesis, and the first gastric biopsy was performed around an open ulcer at the gastric angle. The urease test for *Helicobacter pylori* was positive, and a proton pump inhibitor was administered. One month later, the patient received follow-up gastroscopic biopsy for the survey of the healing of the gastric ulcer. Microscopically, in the lamina propria of the mildly inflamed hyperplastic gastric mucosa, benign-looking plasma cells accompanying Russell bodies ('Mott cells') were focally clustered. There was neither active inflammation, lymphoid follicle formation, lymphoepithelial lesion, nor submucosal extension of the lymphoid infiltration, so that the possibility of mucosa-associated lymphoid tissue (MALT) lymphoma was histologically excluded. Intestinal metaplasia is associated. This is an example of monoclonality seen in benign lesions.

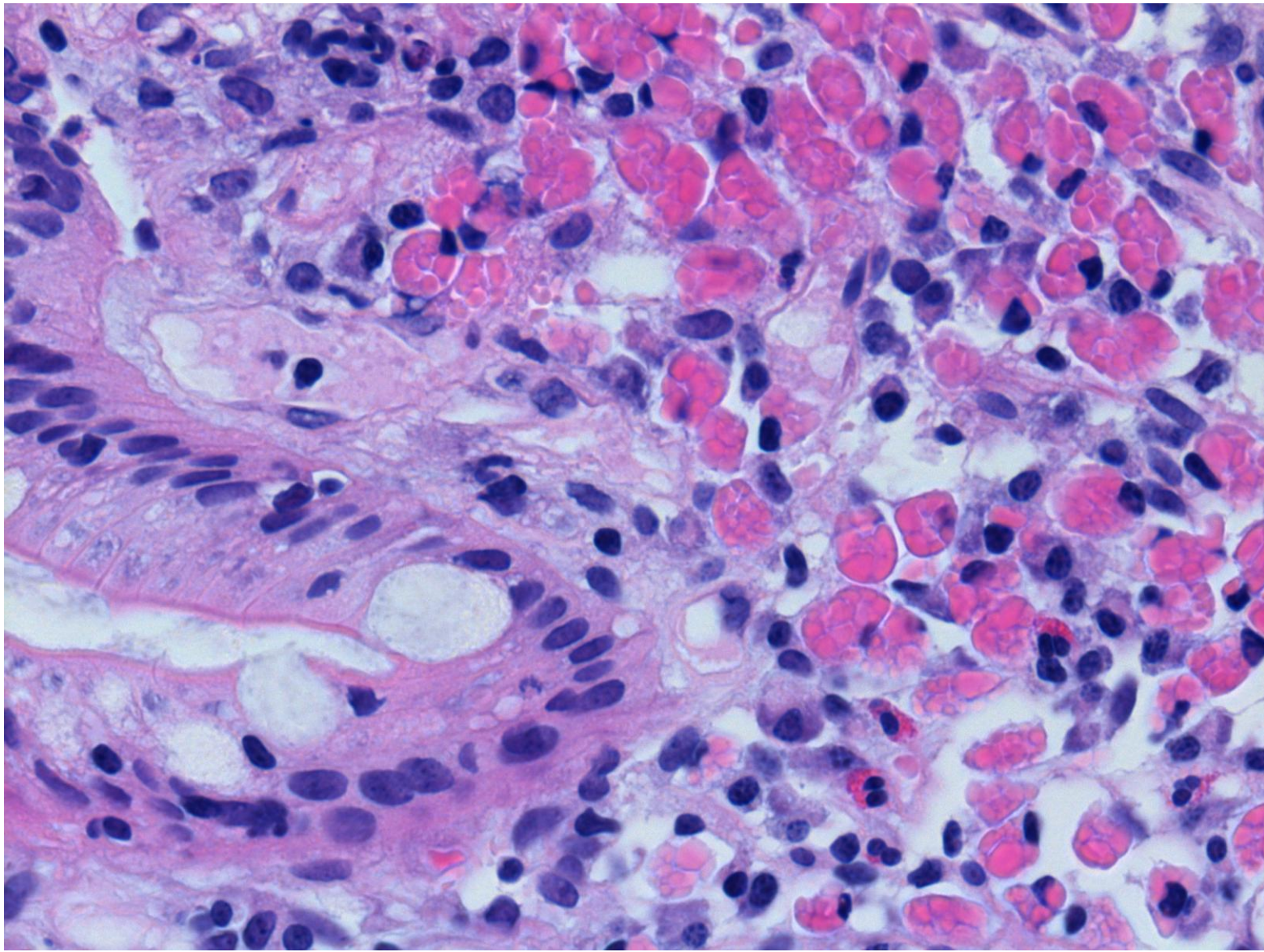
Ref.: Araki D, et al. Russell body gastritis showing IgM kappa-type monoclonality. *Pathol Int* 2013; 63(11): 565-567. doi: 10.1111/pin.12105



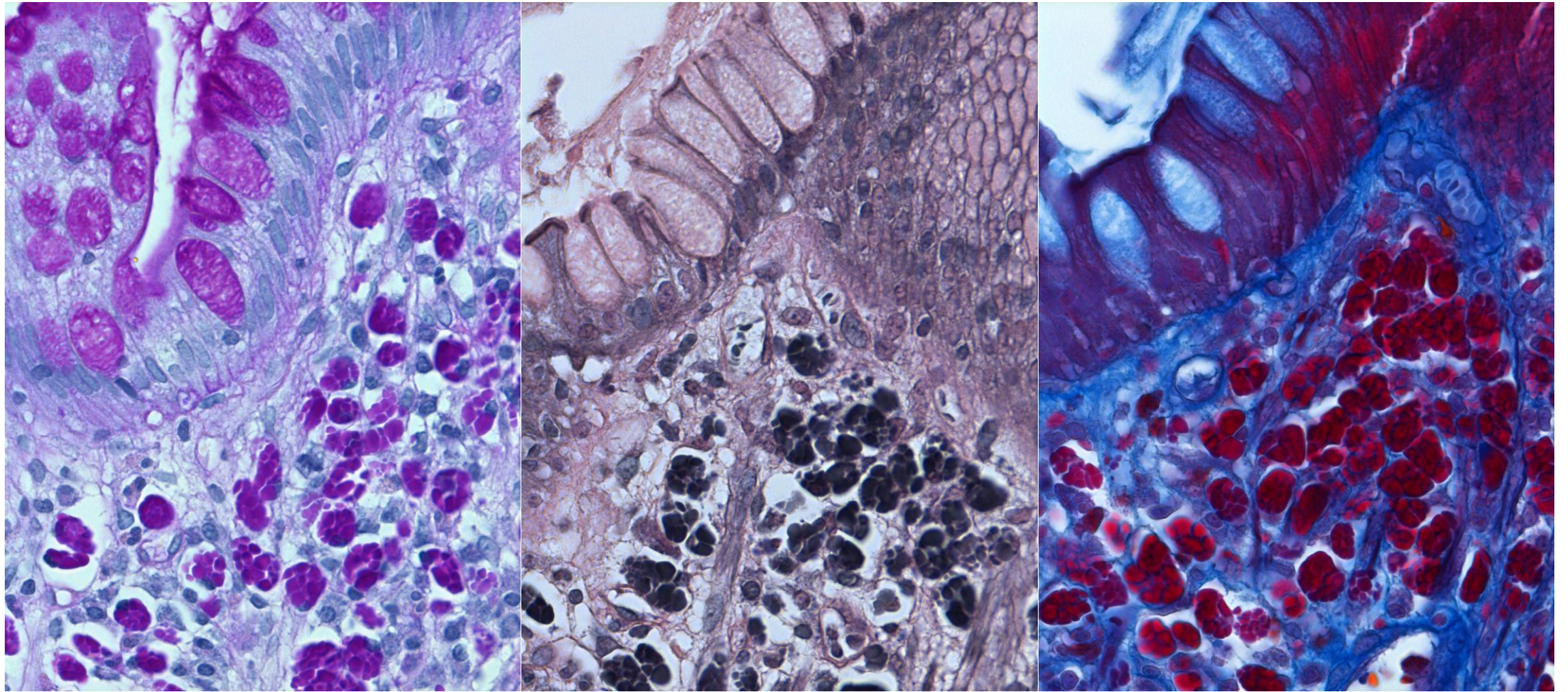
Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. Plasma cells contain eosinophilic globular cytoplasmic inclusions. Intestinal metaplasia is associated. H&E-1



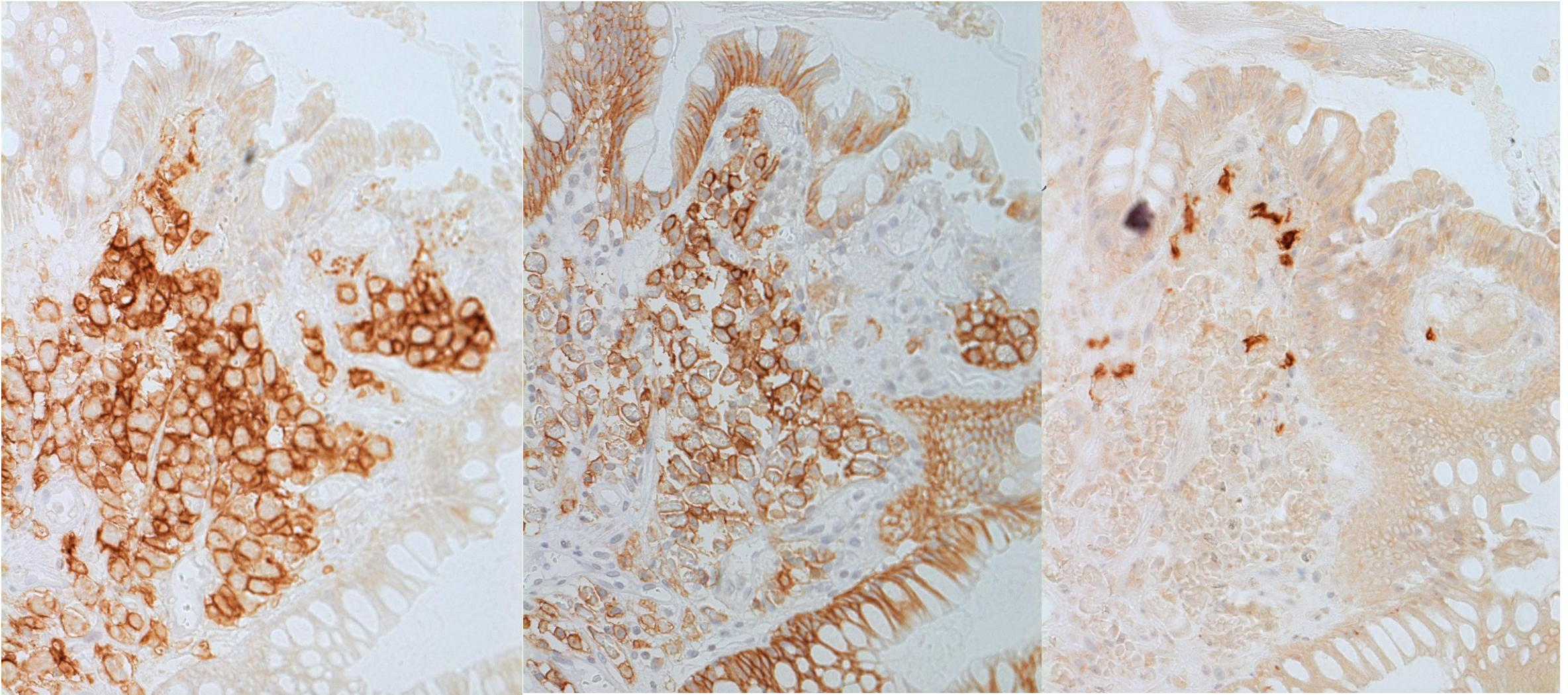
Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. Plasma cells contain eosinophilic globular cytoplasmic inclusions. Intestinal metaplasia is associated. H&E-2



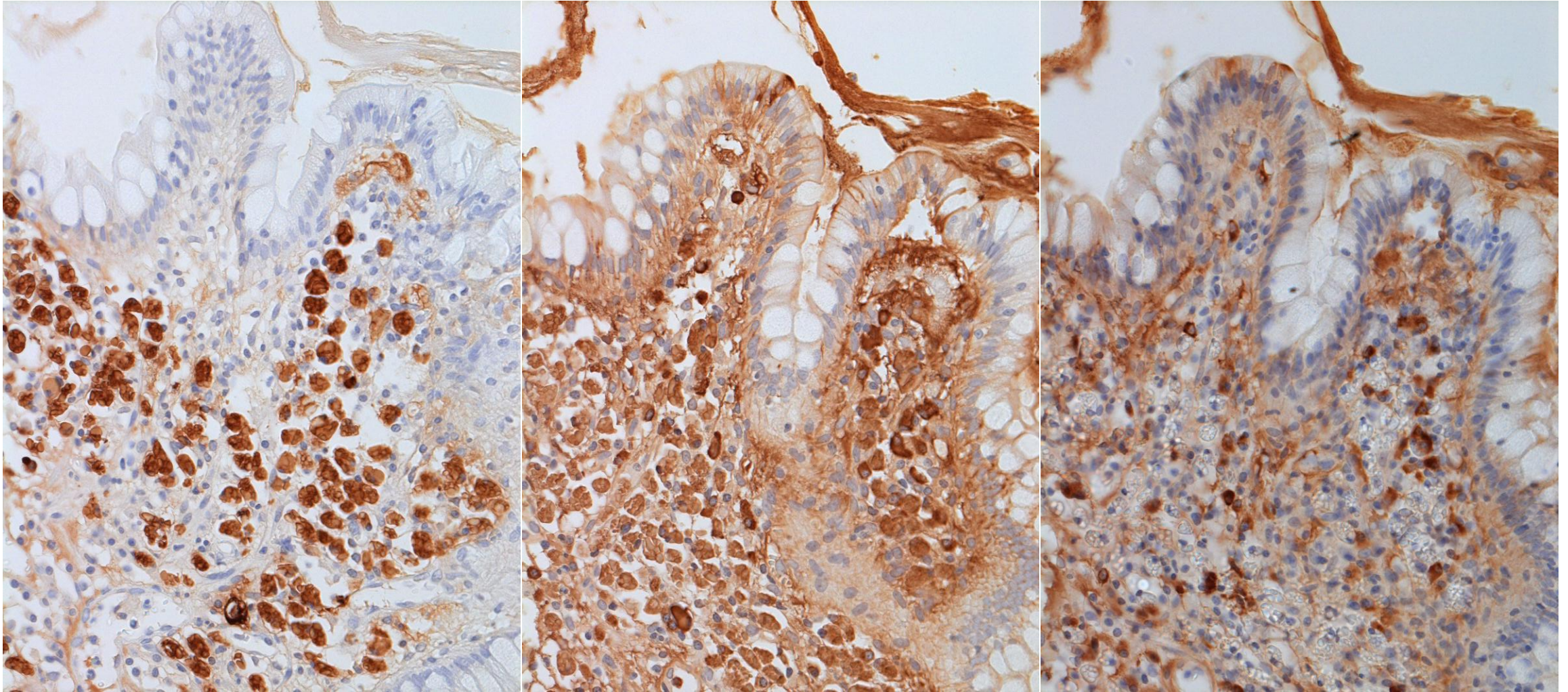
Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. Plasma cells contain eosinophilic globular cytoplasmic inclusions. Intestinal metaplasia is associated. H&E-3



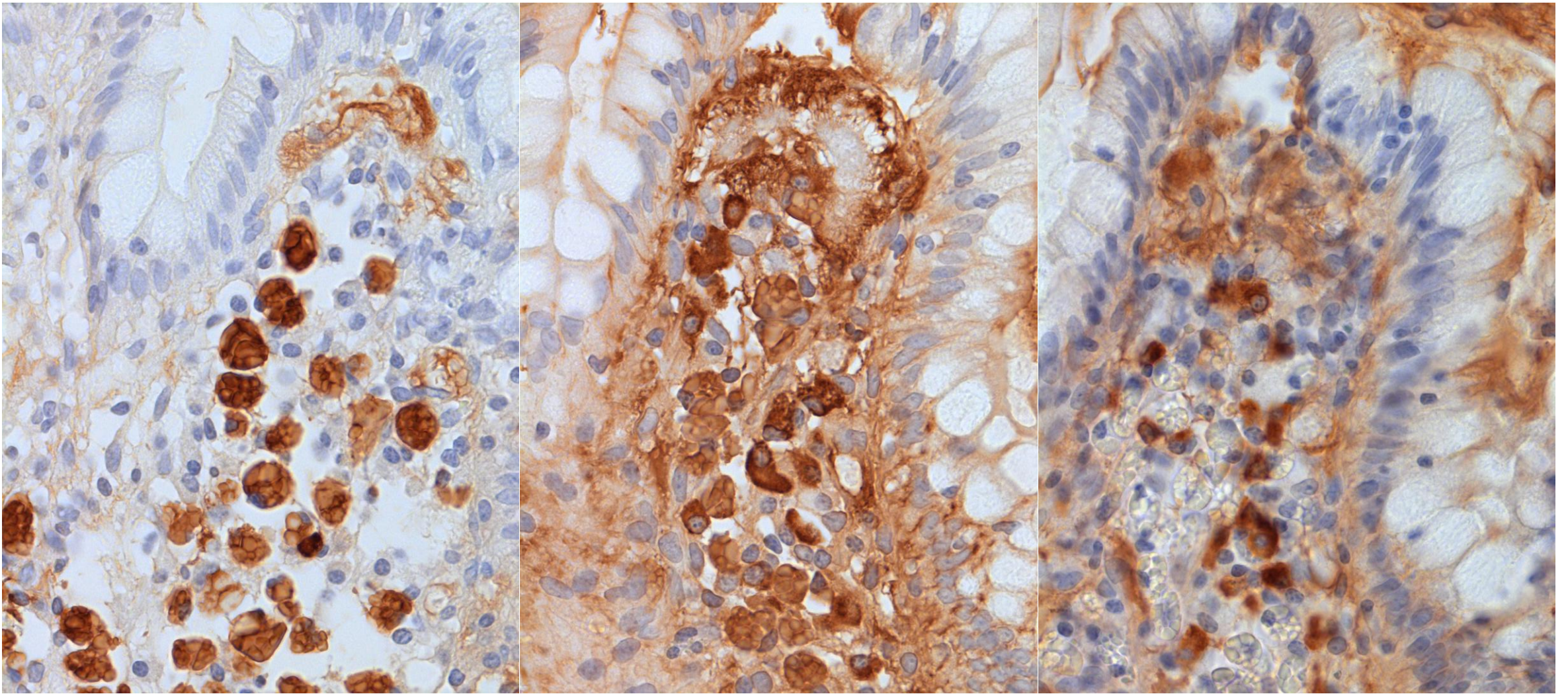
Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. Russell bodies in the plasma cells are positive for PAS reaction (left) and PTAH stain (center). Bright red staining is seen in Azan staining (right). PAS/PTAH/Azan



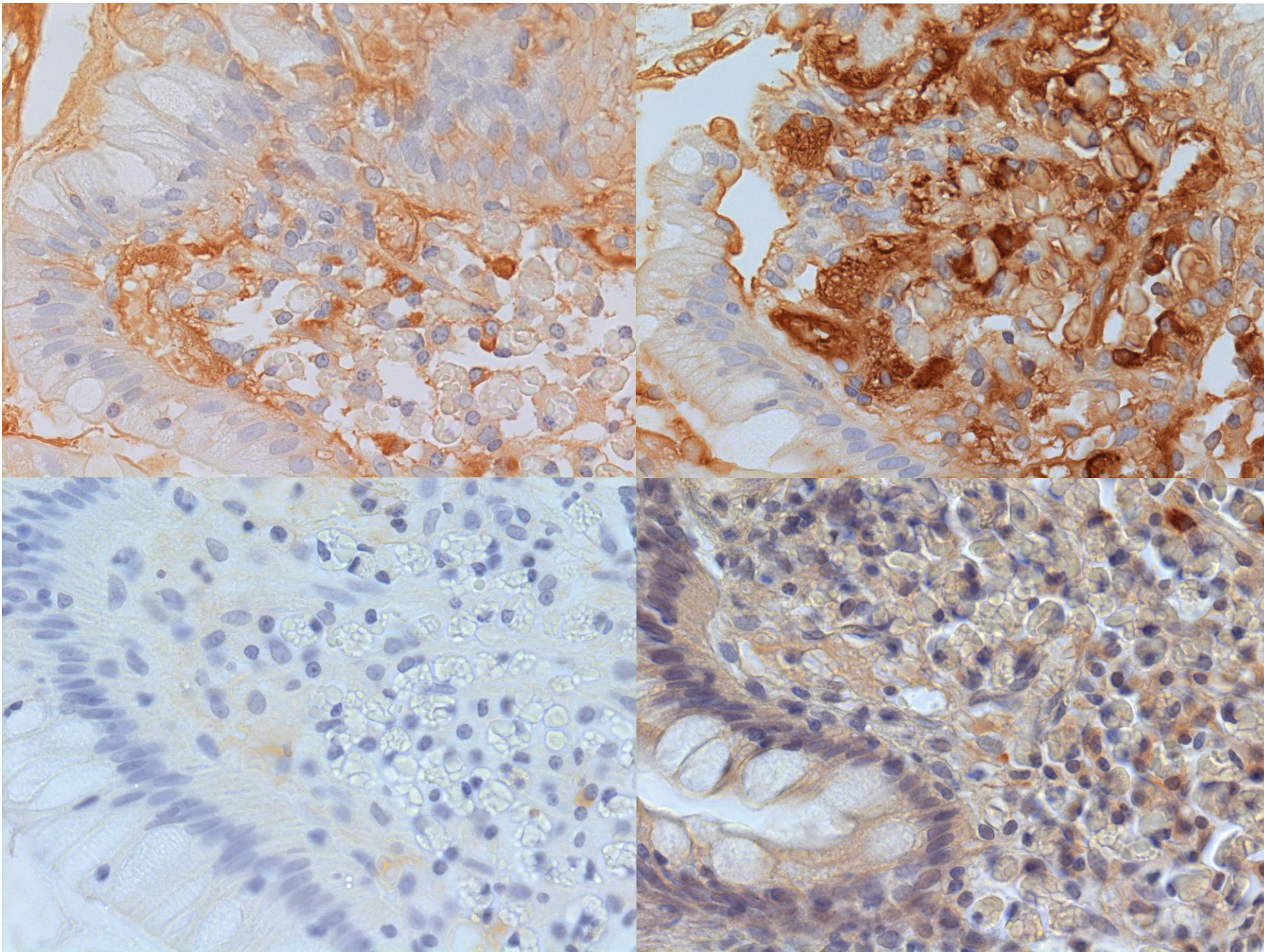
Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. The plasma cells containing Russell bodies are immunoreactive for CD38 (left) and CD138 (center). CD20 is expressed on a few reactive B-cells (right). Immunostaining for CD38/CD138/CD20



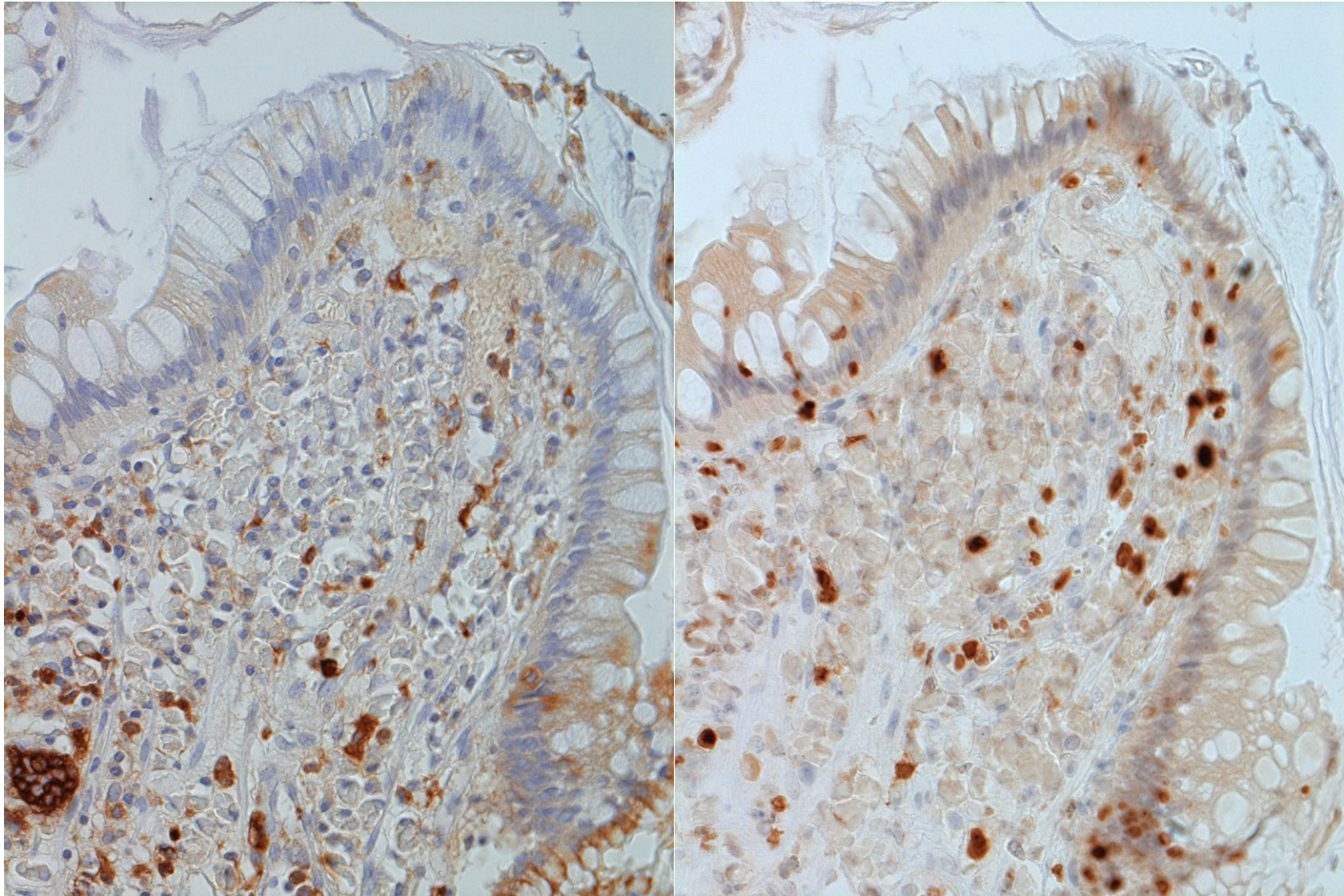
Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. Plasma cells containing Russell bodies are immunoreactive for IgM (left) and kappa chain (center). Lambda chain is positive in scattered plasma cells without Russell bodies (right). Immunostaining for IgM/kappa chain/lambda chain after proteinase pretreatment-1



Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. Plasma cells containing Russell bodies are immunoreactive for IgM (left) and kappa chain (center). Lambda chain is positive in scattered plasma cells without Russell bodies (right). Immunostaining for IgM/kappa chain/lambda chain after proteinase pretreatment-2



Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. Plasma cells containing Russell bodies are negative for IgG (left top), IgA (right top), IgD (left bottom) and IgE (right bottom). Immunostaining for IgG/IgA/IgD/IgE after proteinase pretreatment



Russell body gastritis in a 74-year-old lady reveals focal clustering of “Mott cells” in the lamina propria mucosae. CD68-positive macrophages are scattered (left), while Ki-67 labeling is seen in the nuclei of small lymphocytes in the lamina propria mucosae (right). Immunostaining for CD68 (left) and Ki-67 (right)