

It is all in the balance of hematoxylin and eosin

Tissue-Tek Prisma®
H&E Stain Kit #2



continuous innovation for pathology



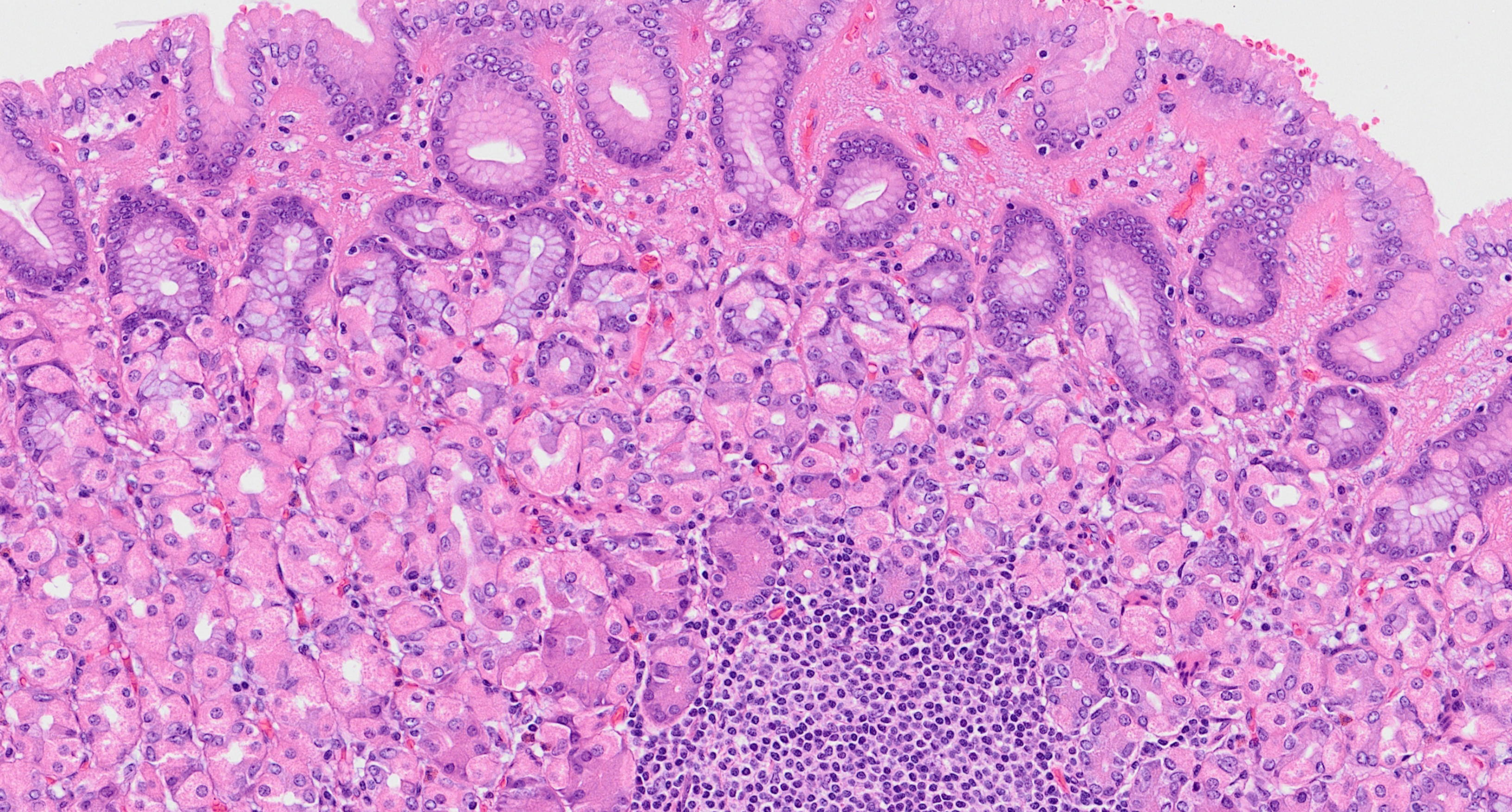
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Leverage the H&E Stain Kit #2 to achieve the customization your pathologists want.

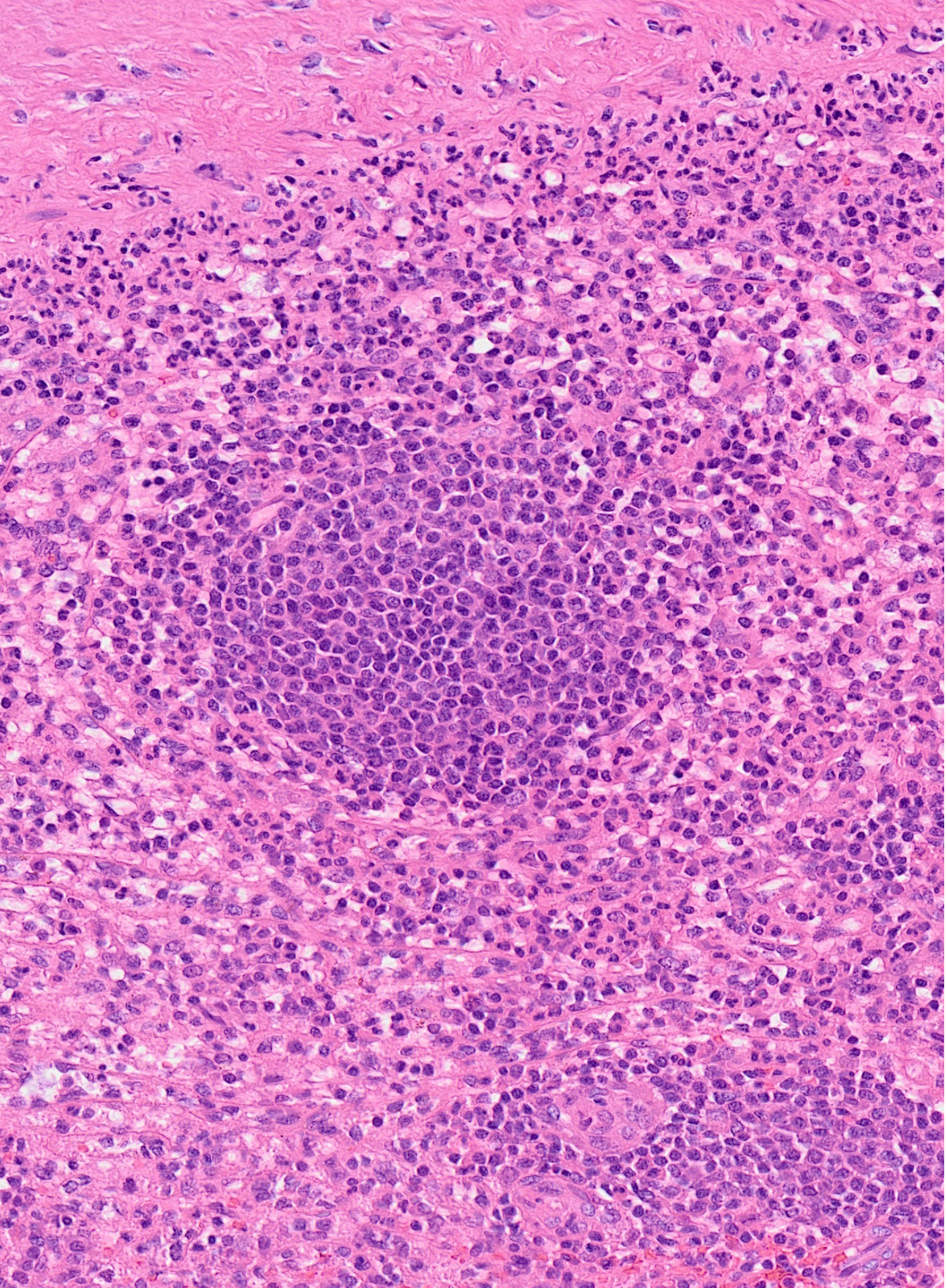
Streamline and standardize your staining process by taking a systematic approach to produce slides faster than ever before and support your pathologists in making the best diagnosis in the shortest amount of time. No more measuring out reagents, just pour and start staining. No more topping off stain reservoirs to get through each day. Set up your **customized solution** with H&E Stain Kit #2 by starting with the validated staining protocol of Sakura Finetek.

Meeting the requirements to produce **pristine stained specimens** every day is one of the laboratories' biggest challenges. Delivering slides during peak demand hours is stressful and requires a superior stain and fast, reliable automated slide stainers and coverslippers.

The Tissue-Tek Prisma H&E Stain Kit #2 was specifically developed for your high-throughput Tissue-Tek Prisma® *Plus* and Prisma Automated Slide Stainers. It provides high quality and reproducible staining for up to 3,000 slides per kit.



The stomach mucosa demonstrates intact surface epithelium composed of foveolar cells with gastric mucin. Underneath is a mixture of oncocyctic parietal cells and amphophilic chief cells. A compact lymphoid follicle is present at the deeper aspect. Interspersed in the lamina propria are occasional eosinophils with bright red cytoplasmic granules and rare plasma cells, best appreciated at higher magnifications. The variety of cells in stomach mucosa demonstrates the contrast and balance that can be achieved with H&E Stain Kit #2.



The Kit designed for Tissue-Tek Prisma Stainers

The **ready-to-use** kit consists of 6 bottles (1 each **Gill's II Hematoxylin** and **Eosin Y**, 2 each Differentiator and Bluing Reagent) - no need to filter, no measuring, no diluting or topping off.

One kit can stain up to **3,000 slides** and can be used for up to **8 days** - less reagent exchanges, saving time.

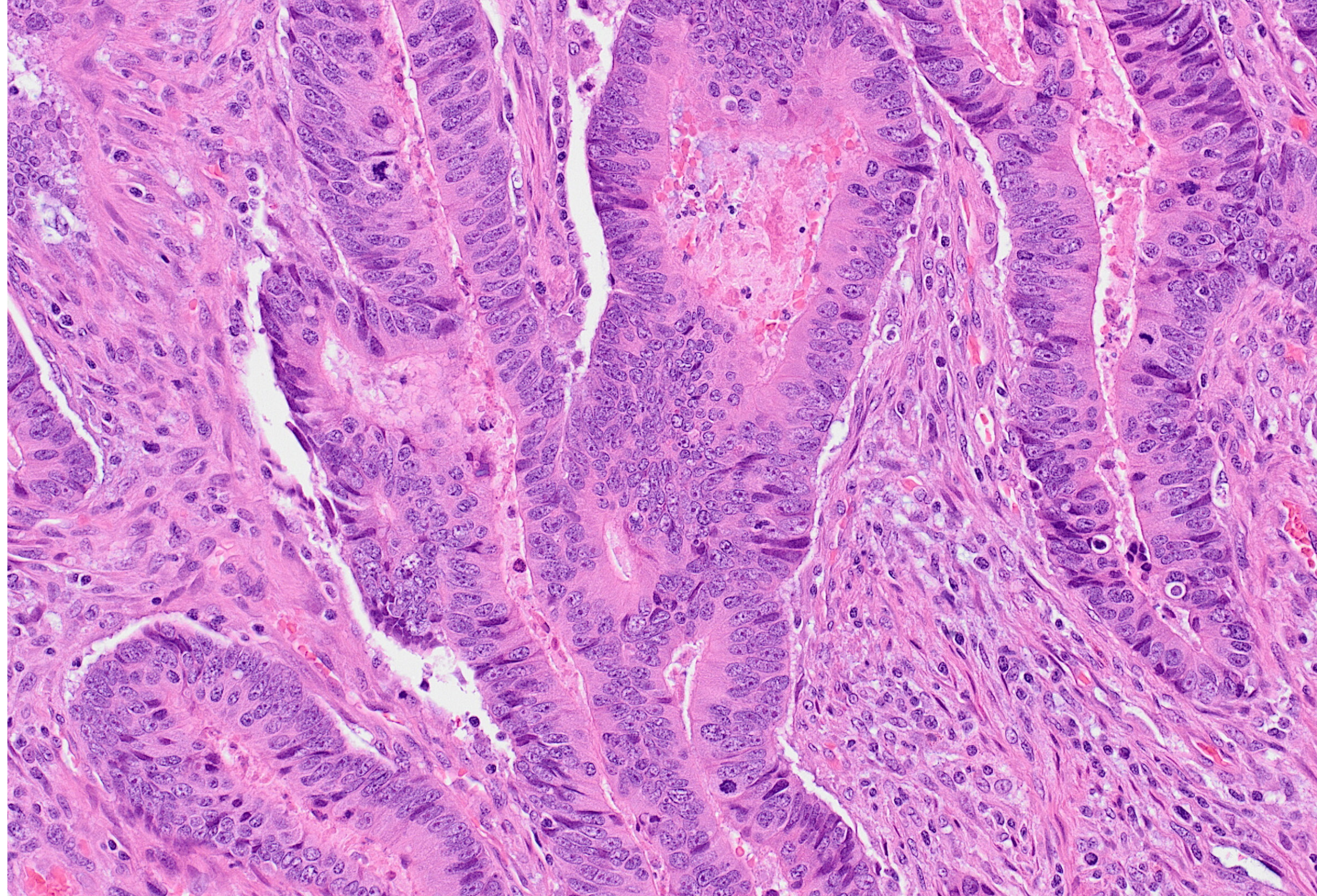
The bottles were **designed to match** the recommended volume for standard Prisma solution stain reservoirs.

This normal spleen is another example of excellent contrast delivered by the H&E Stain Kit #2. The deeply basophilic lymphoid follicles of the white pulp are balanced by the surrounding red pulp composed of endothelial cells and mixed inflammatory cells. A band of neutrophils is well-visualized under the eosinophilic fibrous capsule at the top.

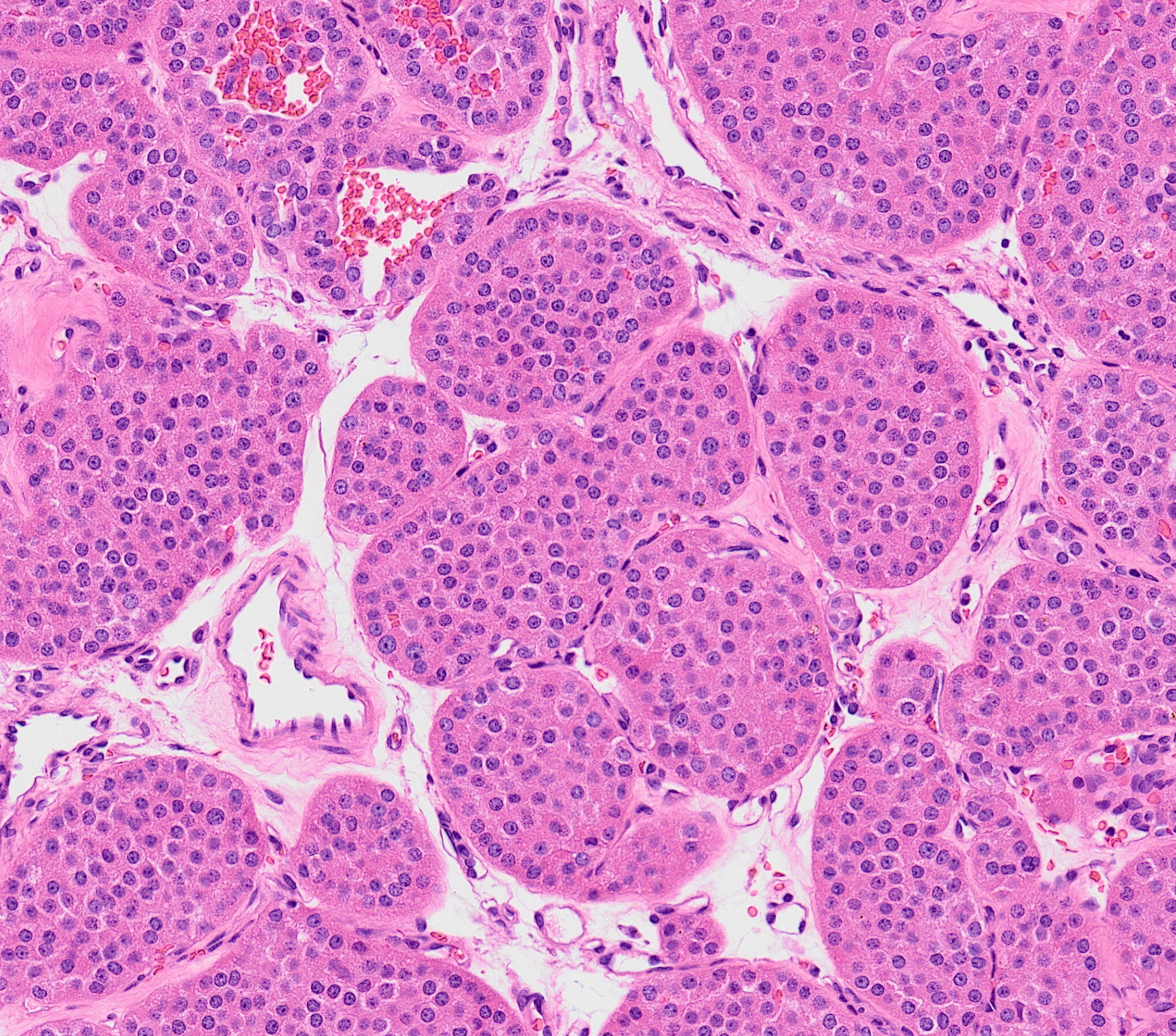
Validated, superb staining

The perfectly matched reagents of the H&E Stain Kit #2 are **stringently QC-tested** to provide lot-to-lot stain consistency.

Only **Biological Stain Commission-certified dyes** are used in the manufacturing process to ensure the highest quality kit components.



This typical colon adenocarcinoma demonstrates irregular, malignant glands set in desmoplastic stroma. Hematoxylin beautifully stains the tumor nuclei and highlights the distinct nucleoli. In contrast, the cytoplasm of the tumor cells and surrounding stromal cells is well-visualized with eosin. The balanced formulation of H&E Stain Kit #2 demonstrates a broad dynamic range capable of highlighting densely packed tumor nuclei, mitotic figures, and adjacent coagulative necrosis.



In this classic renal oncocytoma stained with H&E Stain Kit #2, one can appreciate the well-stained nests and islands of oncocytes set in edematous and vascular stroma. The appearance of the homogenous and finely granular eosinophilic cytoplasm of the oncocytes enables the rapid recognition of this kidney tumor.

Your desired stain is easy to find and shortens validation time

Start your validation process utilizing the **well-balanced protocol** determined during the development of the stain kit and analyzed by an innovative imaging method focusing on stain adequacy.

Handle the patented **wide-mouth** and custom-designed bottles with **ergonomic grips** to minimize spills and easily pour into the reservoirs, **splash-free**.

Avoid filling errors leveraging the **color-matched** labels, bottle caps, and display of the Tissue-Tek Prisma *Plus*.



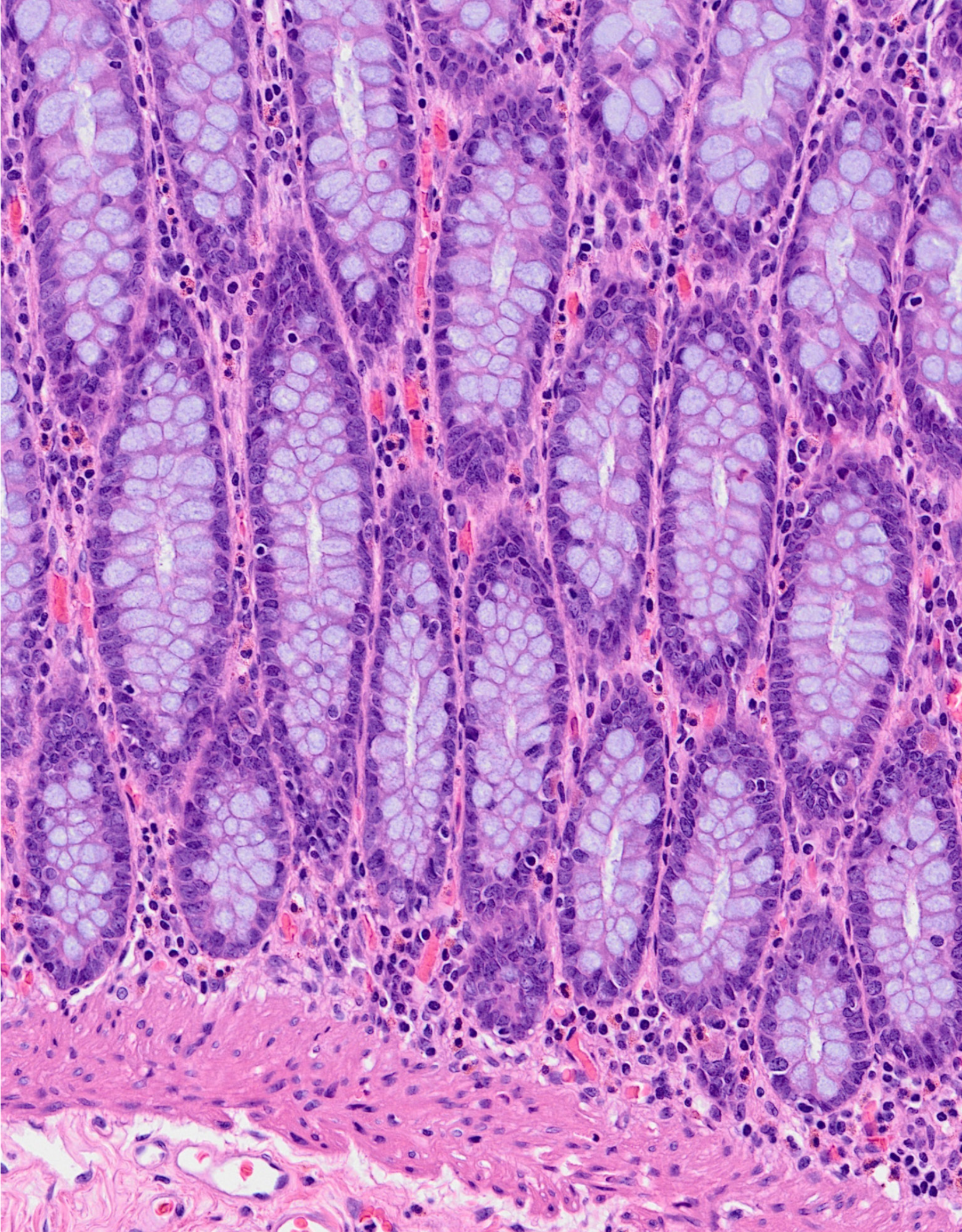
Realize the power of this balanced staining system

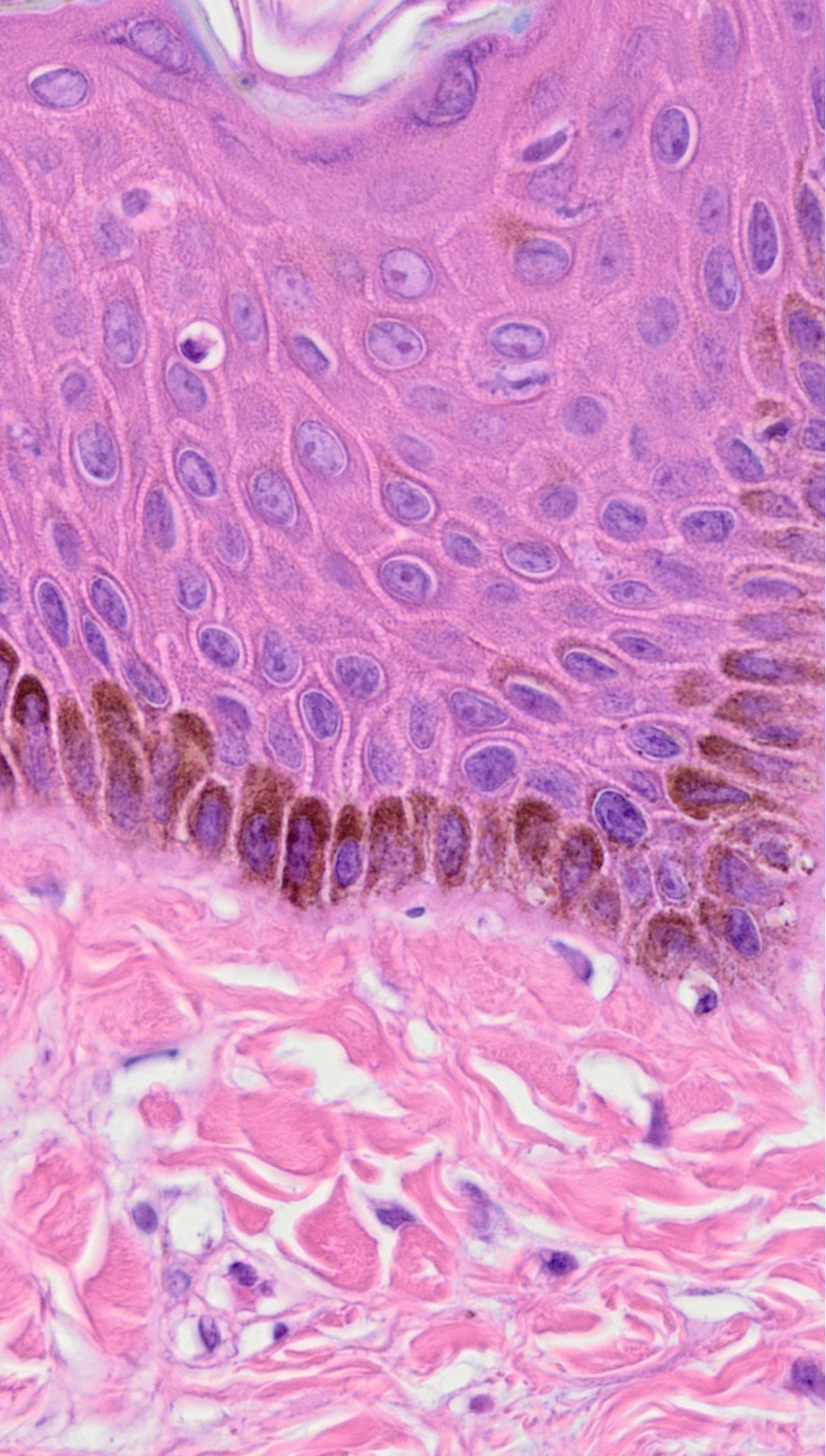
In this poster presented at NSH 2023, 4D Q-Plasia OncoReader™ analyzed slide scanned with the VS-200 and identified **2 preferred H&E protocols** out of 30: Gill's II Hematoxylin: 2 min.; Eosin Y: 20 and 30 seconds.

– To read more click below.



In normal colon, tightly packed crypt goblet cells with intestinal mucin are distinct and easily resolved. Underneath the crypt bases, one can appreciate the superbly formulated eosin which stains compact smooth muscle fibers in the muscularis mucosa and the underlying loose vascular and collagenous matrix in the submucosa. Red blood cells and lymphocytes are easily identified in all sections of the tissue with this Stain Kit.





Specifications

Product name	Tissue-Tek Prisma® H&E Stain Kit #2
Product code	4900 *
Components	The Kit contains the following reagents: Gill’s II Hematoxylin, 1 bottle Eosin Y, 1 bottle ** Differentiator, 2 bottles *** Bluing Reagent, 2 bottles
Volume	750 mL per bottle of Gill’s II Hematoxylin, Differentiator, and Bluing Reagent 820 mL per bottle of Eosin Y
Application	Hematoxylin and eosin staining
Stain capacity	Up to 3,000 slides, protocol-dependent
Slide requirements	1 x 3 inches (25 x 75 mm)
Validated stain protocol	Tissue-Tek Prisma® Automated Slide Stainer and Tissue-Tek Prisma® <i>Plus</i> Automated Slide Stainer (Standard, Special Staining Configuration)
Shelf life	Unopened: 18 months from date of manufacture Opened: 8 days

* 4900 Kit ⚠️ WARNING: This product can expose you to chemicals including Ethylene Glycol, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

** Eosin ⚠️ WARNING: This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

***Differentiator ⚠️ WARNING: This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

This skin biopsy features multiple layers of maturing keratinocytes in the epidermis. Desmosomal junctions between the cells are clear and crisp with H&E Stain Kit #2. The excellent staining of the basal layer allows easy resolution of the finely granular endogenous melanin pigment. In contrast, the underlying dermis is sparsely cellular with its dense, eosinophilic collagen matrix.



A long tradition of excellence

Known for best-in-class automation and reliability, Sakura Finetek remains a privately-held company in business since 1871. Sakura Finetek has achieved its success and solidified its reputation by providing timely, ingenious solutions to the real challenges laboratories face on a day-to-day basis.

Our rich history has given us a thorough understanding of technology, quality, reliability, value for money and our customers' requirements. We use this knowledge to passionately develop products that anticipate developments in both technology and market needs.

Sakura Finetek USA, Inc. (SFA) is based in Torrance, California. Functions covered at this facility include sales and marketing, service and technical support, R&D, and manufacturing. SFA is an ISO 13485 certified manufacturer and supplier. As one of the two global manufacturing and R&D sites, SFA develops instruments and reagents into system solutions and secures our innovation with a steady stream of patents.

In addition to supporting the U.S. marketplace, SFA is also responsible for Canada, Mexico, Central and South America and serves these markets with a network of local distributors.

With the worldwide headquarters in Japan and regional offices in Japan, The Netherlands and the U.S.A., the global strategy of worldwide representation has been fulfilled to guarantee our customers the best service and support.

Our organization is developing, professionalizing and growing continuously, and thus maintaining its position as a trustworthy and valuable partner in histopathology.

Please visit our website www.sakuraus.com

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