



## INTENDED USE:

For *in vitro* diagnostic use.

Tissue-Tek Genie® anti-Gastrin Rabbit Polyclonal Antibody is designed to qualitatively detect gastrin in Formalin-Fixed, Paraffin Embedded (FFPE) specimen sections by immunohistochemical (IHC) staining on the Tissue-Tek Genie® Advanced Staining System. The clinical interpretation must be made in conjunction with histological examination, relevant clinical information, other diagnostic tests, and review of proper controls by a qualified pathologist.

## Limitations

This product has been optimized for use with the default protocol for this antibody on the Tissue-Tek Genie Advanced Staining System, using Tissue-Tek Genie reagents and FFPE specimen sections. Staining quality may diminish when used with other systems and/or reagents.

## SUMMARY & PRINCIPLE:

Gastrin is a peptide hormone that stimulates production gastric acid by the parietal cells of the stomach, and also aids in gastric motility. Gastrin is produced by G-cells in the pyloric antrum of stomach, and evidence suggests an important role for gastrin and its target cell, the enterochromaffin-like cell, in gastric carcinogenesis.

Staining with the Tissue-Tek Genie anti-Gastrin Rabbit Polyclonal Antibody may be useful in the identification of gastric neuroendocrine tumors, when used with a panel of antibodies.

The Tissue-Tek Genie anti-Gastrin Rabbit Polyclonal Antibody is a primary antibody against the human gastrin and is provided in buffered saline containing 1% bovine serum albumin and 0.09% sodium azide. FFPE specimen sections are placed on positively charged slides and the paraffin is removed using the Tissue-Tek Genie® Dewax Solution (REF 8865), after which heat-

induced epitope retrieval is performed using the Tissue-Tek Genie® Citrate Antigen Retrieval Solution (REF 8742). IHC demonstration of gastrin in FFPE specimen sections is achieved through use of the Tissue-Tek Genie anti-Gastrin Rabbit Polyclonal Antibody and the Tissue-Tek Genie® Pro Detection Kit, DAB (REF 8826). This procedure entails the sequential application of antibody and kit components as follows:

- Tissue-Tek Genie® Protein Block
- Tissue-Tek Genie® anti-Gastrin Rabbit Polyclonal Antibody
- Tissue-Tek Genie® Peroxidase Block
- Tissue-Tek Genie® Link (binds to the primary antibody)
- Tissue-Tek Genie® Polymer HRP-Conjugate (binds to the Link)
- Tissue-Tek Genie® DAB Substrate (visualizes the detected peptide hormone)

Tissue-Tek Genie® Hematoxylin (REF 8830) is then used to visualize the nuclei of cells. The IHC stained slide is cover-slipped and the FFPE specimen section reviewed using a light microscope.

## EXPECTED RESULTS:

Specificity and intended use of this antibody were validated by performing IHC staining on the Tissue-Tek Genie Advanced Staining System using FFPE normal and tumor specimen sections. In stomach, G-cells show a moderate to strong cytoplasmic staining, whereas epithelial cells are negative. Cytoplasmic staining is observed in neoplastic cells of gastrin-secreting neuroendocrine tumors.

Sensitivity and identification of Gastrin by this antibody may be affected by improper specimen handling. This may alter antigenicity, weaken detection and may generate false negative results.

Cellular Staining Pattern: Cytoplasmic

Positive Tissue Control: Stomach, Gastrin-Secreting Neuroendocrine Tumor



## CAUTIONS & WARNINGS:

For professional use only. Take reasonable precautions when handling. Avoid contact of reagents with eyes, skin, and mucous membranes. Wear protective gloves, clothing, and eye/face protection.

Capsules filled with ready-to-use, pre-diluted, antibody are for single use only. Do not attempt to re-fill or add additional reagent. Discard Capsule after use.

Cartridges filled with ready-to-use, pre-diluted antibody are intended for multiple uses. Do not attempt to re-fill or add additional reagent. Discard Cartridge when empty.

It is recommended to include appropriate controls on each specimen slide to help in identifying any deviation that might occur during the staining process.

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Refer to the SDS for further information.

## STORAGE CONDITIONS:

Store this product at 2-8°C.

## INSTRUCTIONS FOR USE:

Tissue-Tek Genie® anti-Gastrin Rabbit Polyclonal Antibody, Capsules (REF 8314-C010):

1. Place the Reagent Dispensing Area (RDA)-Tag attached to the Capsule into the RDA.
2. Push the Capsule into the RDA with foil side down.
3. Place the RDA on the desired station of the Tissue-Tek Genie Advanced Staining System.
4. Place the slide with the specimen section on the same station, specimen section side down.
5. Assign Protocol 8314 to the same station.
6. Initiate execution of Protocol 8314.

7. The RDA-Tag 8314 will be scanned and registered automatically when the staining process is initiated.

8. During the primary antibody application step, the antibody will be released from the Capsule into the RDA to the specimen section on the slide.

9. The staining Protocol continues to the end.

Tissue-Tek Genie® anti-Gastrin Rabbit Polyclonal Antibody, Cartridge (REF 8314-M250):

1. Prior to placing the Cartridge on the Carousel of the Tissue-Tek Genie Advanced Staining System, prime the Cartridge by facing the nozzle downwards and gently pinching the nozzle tubing until the tubing is filled with the reagent.

2. Place the Cartridge on the Carousel.

3. Place the RDA-Tag 8314 into the RDA.

4. Place the RDA on the desired station of the Tissue-Tek Genie Advanced Staining System.

5. Place the slide with the specimen section on the same station, specimen section side down.

6. Assign Protocol 8314 to the same station.

7. Initiate execution of Protocol 8314.

8. The RDA-Tag 8314 and the Cartridge will be scanned and registered automatically when the staining process is initiated.

9. During the primary antibody application step, the antibody will be dispensed from the Cartridge into the RDA to the specimen section on the slide.

10. The staining Protocol continues to the end.

## Materials Required but Not Supplied

The following reagents may be required for staining but are not provided:

- Tissue-Tek Genie® Dewax Solution (REF 8865)
- Tissue-Tek Genie® Wash Solution (REF 8874)
- Tissue-Tek Genie® Citrate Antigen Retrieval Solution (REF 8742)
- Tissue-Tek Genie® Non-immune Rabbit Ig Antibody, Negative Control (REF 8605)

# Tissue-Tek Genie® anti-Gastrin Rabbit Polyclonal Antibody



- Tissue-Tek Genie® *Pro* Detection Kit, DAB (REF 8826)
- Tissue-Tek Genie® Hematoxylin (REF 8830)

Further information can be found on the Sakura Finetek USA website at [www.sakura-americas.com/Genie](http://www.sakura-americas.com/Genie)

## ORDER INFORMATION:

### Product Code/Product Name

REF 8314-C010 Tissue-Tek Genie® anti-Gastrin Rabbit Polyclonal Antibody, 10 Capsules, Ready-To-Use.

REF 8314-M250 Tissue-Tek Genie® anti-Gastrin Rabbit Polyclonal Antibody, 1 Cartridge, 250 Tests, Ready-To-Use.

**NOTE:** The Safety Data Sheet (SDS) is available online on the Sakura Finetek USA website at [www.sakura-americas.com/SDS.html](http://www.sakura-americas.com/SDS.html)

## CONTACT:

If located within the United States, contact Sakura Finetek USA, Inc. by calling toll free **1-800-725-8723** or contact your Sakura Finetek representative or authorized distributor.

In countries, other than the United States, contact the nearest authorized Sakura Finetek instrument distributor or representative. Contact details may be found at [www.sakura.com](http://www.sakura.com)

## REFERENCES:

1. Waldum HL, et al. Front Endocrinol (Lausanne). 2017; 8:1-7.
2. Shao Y, et al. World J Gastroenterol. 2014; 20:12860-12873.

## SYMBOLS:

- Catalog number
- Batch code
- in vitro* diagnostic medical device
- Temperature limitation
- Use by
- Manufacturer
- Consult instructions for use
- European Conformity
- Authorized representative in the European Community

Storage: 2°C 8°C  
Shipping: 2°C 8°C



	Sakura Finetek USA, Inc. 1750 W 214 <sup>th</sup> Street Torrance, CA 90501 U.S.A.
	Sakura Finetek Europe B.V. Flemingweg 10a 2408 AV Alphen aan den Rijn The Netherlands
Made in U.S.A.	