

# Tissue-Tek Genie®

## anti-OCT.2 Rabbit Monoclonal Antibody [EP284]

### Instructions for use

#### Intended use

For *in vitro* diagnostic use.

Tissue-Tek Genie® anti-OCT.2 Rabbit Monoclonal Antibody [EP284] is an antibody designed to qualitatively detect human OCT.2 protein in formalin-fixed, paraffin embedded (FFPE) specimen sections by immunohistochemistry (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 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 and principle

OCT.2 is a transcription factor that binds to the immunoglobulin gene and interacts with BOB.1. It is essential for expression of B-cell specific genes. OCT.2 is expressed in mature B-cells, predominantly germinal center B-cells. High levels of OCT.2 expression was also found in monocytoid B-cells and plasma cells. Low expression has been found in immature B-cells, T-cells, epithelial cell lines, and myelomonocytic cells. Various lymphomas are also positive for this marker, including B-chronic lymphocytic leukemia, mantle cell

lymphoma, follicular lymphoma, marginal zone lymphoma, plasmacytoma, Burkitt lymphoma, diffuse large cell lymphoma, diffuse large B-cell lymphoma, T-cell rich B-cell lymphoma, nodular lymphocyte predominant Hodgkin's lymphoma, classic Hodgkin's lymphoma. Anti-OCT.2 antibody is useful for differentiation of lymphoma, especially for identification of the lineage of CD20 negative B-cell neoplasms and differentiation of classical Hodgkin's lymphoma from primary mediastinal large B-cell lymphoma when used in a panel with other antibodies. The strong nuclear expression of BOB.1 and OCT.2 by germinal center derived lymphomas makes these antibodies a novel class of broad-spectrum B-lineage IHC markers to aid in the differential diagnosis of lymphomas.

The Tissue-Tek Genie anti-OCT.2 Rabbit Monoclonal Antibody [EP284] is a primary antibody against the human OCT.2 protein 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-G001), after which heat-induced epitope retrieval is performed using the Tissue-Tek Genie® High pH Antigen Retrieval Solution (REF 8744-G001).

IHC demonstration of human OCT.2 protein in FFPE specimen sections is achieved through use of the Tissue-Tek Genie anti-OCT.2 Rabbit Monoclonal Antibody [EP284] and the Tissue-Tek Genie® Pro Detection Kit, DAB (REF 8826-K250). This procedure entails the sequential application of antibody and kit components as follows:

- Tissue-Tek Genie® Protein Block
- Tissue-Tek Genie® anti-OCT.2 Rabbit Monoclonal Antibody [EP284]
- 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 protein)

Tissue-Tek Genie® Hematoxylin (REF 8830-M250) 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.

Nuclear staining is observed in all germinal center and mantle-zone B-cells, plasma cells, and lymphocytes in lamina propria. Nuclear staining is observed in B-cells in various tissues. Nuclear staining is observed in neoplastic cells of various B-cell lymphomas, including diffuse large B-cell lymphoma, follicular lymphoma.

Sensitivity and identification of human OCT.2 protein 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: nuclear

Positive specimen control: tonsil, B-cell lymphoma

## Cautions and 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 refill 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 refill 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-OCT.2 Rabbit Monoclonal Antibody [EP284], capsules (REF 8334-C010):

1. Place the Tissue-Tek Genie® Reagent Dispensing Area Tag (RDA-Tag) attached to the capsule into the RDA.
2. Push the capsule into the RDA with foil side down and click the attached RDA-Tag down into place on the RDA.
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 8334 to the same station.
6. Initiate execution of protocol 8334.
7. The RDA-Tag 8334 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 and onto the specimen section on the slide.
9. The staining protocol continues to the end.

Tissue-Tek Genie® anti-OCT.2 Rabbit Monoclonal Antibody [EP284], cartridge (REF 8334-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. Click the RDA-Tag 8334 into place on 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 8334 to the same station.
7. Initiate execution of protocol 8334.
8. The RDA-Tag 8334 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 and onto the specimen section on the slide.
10. The staining protocol continues to the end.

#### Material required but not supplied

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

- Tissue-Tek Genie® Dewax Solution (REF 8865-G001)
- Tissue-Tek Genie® Wash Solution (REF 8874-G004)
- Tissue-Tek Genie® High pH Antigen Retrieval Solution (REF 8744-G001)
- Tissue-Tek Genie® Non-Immune Rabbit Ig Antibody, Negative Control (REF 8605-C010, 8605-M250)
- Tissue-Tek Genie® Pro Detection Kit, DAB (REF 8826-K250)
- Tissue-Tek Genie® Hematoxylin (REF 8830-M250)

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

## Order information

#### Product code, product name and quantity

(REF) 8334-C010 Tissue-Tek Genie® anti-OCT.2 Rabbit Monoclonal Antibody [EP284], Ready-To-Use, 10 capsules; 1 pack.

(REF) 8334-M250 Tissue-Tek Genie® anti-OCT.2 Rabbit Monoclonal Antibody [EP284], Ready-To-Use, 250 tests, 1 cartridge; 1 unit.

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

## References








1. Yin L, et al. Histopathology. 2016; 69:775-783
2. Higgins RA, et al. Arch Pathol Lab Med. 2008; 132:441-461
3. Gibson SE, et al. Am J Clin Pathol. 2006; 126:916-924
4. Garcia-Cosio M, et al. Mod Pathol. 2004; 17:1531-1538
5. Browne P, et al. Am J Clin Pathol. 2003; 120:767-777
6. Stein H, et al. Blood. 2001; 97:496-501.

## 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)

## Symbols

	Catalog number
	Batch code
	<i>in vitro</i> 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







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