

Tissue-Tek Genie® DUO

Mouse-DAB/Rabbit-AP Red Dual Detection Kit

Instructions for use

Intended use

For *in vitro* diagnostic use.

The Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit is designed to detect mouse and rabbit primary antibody cocktails in formalin-fixed, paraffin embedded (FFPE) specimen sections by immunohistochemistry (IHC) staining using 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 on the Tissue-Tek Genie Advanced Staining System, using Tissue-Tek Genie® reagents, including specific mouse and rabbit primary antibody cocktails and FFPE specimen sections. Staining quality may diminish when used with other systems and/or reagents.

Summary and principle

The Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit uses a non-biotin-based system to detect and to visualize mouse and rabbit primary antibodies bound to antigens in FFPE specimen sections.

The detection system uses a protein block to prevent nonspecific binding of antibodies to antigens with downstream components of the detection system. After blocking, mouse and rabbit primary antibodies

are applied on the tissue sections simultaneously using prefilled capsules or cartridges. Subsequently, the detection system sequentially applies the Link Mouse solution that binds to mouse primary antibodies and then the Link Rabbit solution that binds to rabbit primary antibodies. This is followed by an application of a cocktail containing a horseradish peroxidase (HRP) conjugate for mouse and an alkaline phosphatase (AP) conjugate for rabbit. The resulting complex is visualized by sequentially applying the diaminobenzidine (DAB) substrate-chromogen solution, and then by applying the AP Red substrate-chromogen solution, which create colored precipitates at the location of the antigens. These precipitations can be seen through a light microscope.

Caution: The AP red chromogen is soluble in alcohol. DO NOT use extended alcohol baths or extended use of xylene to dehydrate and clear slides. Refer to the instructions for automated coverslipping section.

This procedure entails the sequential application of antibody and kit components as follows:

- Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit, Protein Block, one (1) cartridge for 250 tests
- Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit, Link Mouse, one (1) cartridge for 250 tests
- Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit, Link Rabbit, one (1) cartridge for 250 tests

- Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit, Poly HRP + AP Conjugate, one (1) cartridge for 250 tests
- Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit, DAB, one (1) cartridge for 250 tests
- Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit, AP Red, one (1) cartridge for 250 tests

Expected results

Positive staining of antigens detected by mouse primary antibodies is indicated by a brown to dark brown color.

Positive staining of antigens detected by rabbit primary antibodies is indicated by a red color.

Cautions and warnings

For professional use, only. Reagents in the Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit may be harmful if swallowed. It is suspected of causing genetic defects and may cause cancer. For all other reagents, take reasonable precautions when handling. Avoid contact of reagents with eyes, skin, and mucous membranes. Wear protective gloves, clothing, and eye/face protection.

Cartridges filled with Ready-To-Use reagents are for multiple use. 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

1. Prior to placing cartridges of this kit on the carousel of the Tissue-Tek Genie Advanced Staining System, prime each cartridge by facing the nozzle downwards and gently pinching the nozzle tubing until the tubing is filled with the reagent.

2. The cartridges will be scanned and registered automatically when a staining run is initiated or the "SCAN REAGENTS" process is started.
3. The 6 cartridges of this kit are registered with the software as one kit. Do not replace any reagent from a kit with the corresponding reagent from another kit.

Instructions for automated coverslipping

1. Ensure the Tissue-Tek Prisma® / Tissue-Tek Prisma® Plus Automated Slide Stainer (REF 6130/6170) linked to a Tissue-Tek Film® Automated Coverslipper / Tissue-Tek Glas™ g2 Automated Glass Coverslipper (REF 4740/6500) are operational.
2. Transfer the slides from the Tissue-Tek Genie Advanced Staining System promptly into a Tissue-Tek® Slide Basket (REF 4768) and place the basket immediately into a start station on the Tissue-Tek Prisma® / Tissue-Tek Prisma® Plus Automated Slide Stainer.
3. Start the Sakura Finetek validated IHC dehydration program listed below. This program must be set to Priority (refer to the operating manual).

Step	Station	Solution	Time	Delay	Mix
1	S*	Start Station	--:--:--		
2	W*	Wash Station	00:01:00	==	EW
3	23	Alcohol 95%	00:00:10	==	ON
4	22	Alcohol 100%	00:00:10	==	ON
5	21	Alcohol 100%	00:00:10	==	ON
6	19	Xylene	00:00:10	==	ON
7	18	Xylene	00:00:10	==	ON
8	17	Xylene	00:00:10	==	ON
9	E1-*	End Station 1	--:--:--		

Material required but not supplied for IHC

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® Citrate Antigen Retrieval Solution (REF 8742-G001)
- Tissue-Tek Genie® High pH Antigen Retrieval Solution (REF 8744-G001)

- Tissue-Tek Genie® Hematoxylin (REF 8830-M250)
- Tissue-Tek Genie® DUO Antibody Cocktail reagents

Further information can be found on the Sakura Finetek USA website at www.sakuraus.com/Genie

Order information

Product code, product name and quantity

REF 8837-K250 Tissue-Tek Genie® DUO Mouse-DAB/Rabbit-AP Red Dual Detection Kit; RTU, cartridge containing 250 tests, 1 each, Protein Block, Link 1, Link 2, Poly HRP + AP Conjugates, DAB, AP Red/kit







NOTE: The Safety Data Sheet (SDS) is available online on the Sakura Finetek USA website at www.sakuraus.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

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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