

## Datasheet: 12023981

<b>Description:</b>	TrailBlazer SBUV445 Label Kit
<b>Name:</b>	TrailBlazer StarBright UltraViolet 445 Label Kit
<b>Format:</b>	StarBright UltraViolet 445
<b>Product Type:</b>	Conjugation Kit
<b>Quantity:</b>	1 X 100 µg Antibody Conjugation

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Conjugation - Flow Cytometry	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright UltraViolet 445	347	440

#### Product Information

TrailBlazer™ StarBright™ Dye Label is the second part of a two-kit antibody labeling system. Together with the [TrailBlazer Tag kit](#) it will allow you to conjugate an antibody to superior StarBright Dyes using the innovative [SpyTag and SpyCatcher technology](#). They provide the benefits of using StarBright Dyes in flow cytometry and western blots for your antibody of choice.

First, the SpyTag is attached to an antibody using the TrailBlazer Tag Kit. This antibody, now with a SpyTag, is then mixed with a StarBright Dye labeled SpyCatcher using the Label Kit. A spontaneous reaction occurs between the SpyTag and SpyCatcher resulting in an irreversible covalent isopeptide bond. The result is a highly stable StarBright Dye labeled antibody, which should be stored at +4°C in the dark, and when stored correctly will be stable for up to 12 months.

Batch specific [Certificate of Analysis](#) for TrailBlazer StarBright Dye Label Kits are available to be downloaded directly from the website.

In flow cytometry we suggest using 5µl of the undiluted labeled antibody to stain 10<sup>6</sup> cells in 100µl. However, we highly recommend that you [titrate the antibody](#) to determine the optimal amount of antibody for your specific experiment.

The TrailBlazer StarBright Dye Label Kits are available in different pack sizes and for a range of StarBright Dyes. Discover the [full range](#) and all the [benefits of these TrailBlazer](#)

## [Tag and StarBright Dye Label Kits.](#)

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<b>Reagents In The Kit</b>	1 X 100 µg Antibody Conjugation ( <u><a href="#">3 X 100 µg Antibody Conjugation Kit available</a></u> ) 1 vial Storage Buffer 1 vial StarBright Dye-Catcher SBUV445 1 vial Quenching Reagent 1 Spin Column 1 Collection Tube
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<b>Flow Cytometry</b>	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.
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<b>Instructions For Use</b>	<p>Add the SpyTagged antibody product from TrailBlazer Tag Kit to the StarBright Dye-Catcher vial. Mix and incubate for 30 min at room temperature or overnight at +4°C. Add the sample to the Spin Column. Vortex briefly and mix on an end-over-end rotary mixer at room temperature for 60 min.</p> <p>Break open the bottom of the Spin Column and insert the column into the 2 ml amber collection tube. Slightly loosen the cap of the Spin Column and centrifuge at 1500 x g for 2 min. Retain the eluate, containing the label antibody.</p> <p>Prepare Quenching Reagent by adding 5 µl of ultrapure water.</p> <p>Add 4 µl of prepared Quenching Reagent and 45 µl of Storage Buffer to the labeled antibody. Vortex briefly to mix.</p> <p>Antibodies are now labeled and ready to use. Store at +4°C in the dark for up to 1 year. For full instructions for use please go to: <u><a href="http://bio-rad-antibodies.com/label-SB-kit-IFU">bio-rad-antibodies.com/label-SB-kit-IFU</a></u>.</p>
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<b>Storage</b>	Store at +4°C. DO NOT FREEZE.
	The StarBright Dye labeled antibody should be stored undiluted at +4°C in the dark for up to 1 year.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #12023981 available at: <u><a href="https://www.bio-rad-antibodies.com/SDS/12023981">https://www.bio-rad-antibodies.com/SDS/12023981</a></u>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[TrailBlazer Tag Kit 0.1 mg \(12020038\)](#)

[TrailBlazer Tag Kit 3 x 0.1 mg \(12020901\)](#)

[TrailBlazer SBUV445 Label Kit 3x 0.1 mg \(17010790\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M446178:251022'

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