

## Datasheet: STAR3000A

<b>Description:</b>	HISTAR DETECTION SYSTEM
<b>Name:</b>	HISTAR DETECTION KIT (HUMAN TISSUES ONLY)
<b>Format:</b>	Kit
<b>Product Type:</b>	Kits
<b>Quantity:</b>	50 TESTS

## 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
Immunohistology - Frozen	▪			Ready to use
Immunohistology - Paraffin	▪			Ready to use

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.

### Intended Use

**Bio-Rad HISTAR Detection System** reagents are designed specifically to replace complex immunohistochemical techniques with a simple kit. This kit provides linking and labeling reagents intended for use with species specific primary antibodies for visualizing cellular antigens in tissue specimens. Visualization is accomplished using an ultra-sensitive indirect labeling method that utilizes novel polymer labeling technology. Secondary antibodies are polymerized directly with Horseradish peroxidase (HRP) into compact polymers bearing a high ratio of enzyme to antibody. This biotin-free system offers enhanced sensitivity and minimal background staining.

**The HISTAR Detection System is designed for the staining of Human tissue sections. This kit is suitable for use with mouse and rabbit primary antibodies only.**

All labeling and blocking reagents are pre-diluted for immediate use, and chromogen is provided in concentrated format. This product is suitable for use with the wide range of Bio-Rad ready-to-use or concentrated primary antibody reagents against human targets. Detailed instructions for use can be found in the complete Bio-Rad PDF datasheet, that can be accessed by clicking on the "Instructions For Use" link. The procedure has been briefly summarized below:

- 1) Prepare tissue sections appropriately according to the requirements of the primary antibody being used e.g. apply antigen retrieval if necessary.
- 2) Incubate paraffin-embedded sections with peroxide blocking reagent for 15 minutes at room temperature. Rinse with Phosphate Buffered Saline (PBS).
- 3) Apply serum block and incubate for 15 minutes.
- 4) Apply primary antibody and incubate for 30 minutes.
- 5) Apply reagent boost and incubate for 20 minutes. Rinse twice with PBS (5 minutes per wash).
- 6) Apply HRP polymer for 30 minutes, then rinse twice with PBS (5 minutes per wash).
- 7) Apply DAB substrate solution for 3-5 minutes, then rinse with distilled water.  
[Discard unused substrate solution]
- 8) Counterstain and mount slides using an aqueous mounting medium such as [BUF058A](#).

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<b>Reagents In The Kit</b>	<p>VIAL 1, Serum Block 1 x 5ml, 5% Normal Serum in 0.01M Phosphate Buffered Saline (PBS) containing 0.1% Sodium Azide (NaN<sub>3</sub>)</p> <p>VIAL 2, Reagent Boost 1 x 5ml</p> <p>VIAL 3, HRP Polymer 1 x 5ml</p> <p>VIAL 4, Peroxide Blocking Reagent 1 x 5ml, 3% Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>)</p> <p>VIAL A, DAB Chromogen 1 x 2ml, 2.5% 3,3' Diaminobenzidine in stabilizing buffer</p> <p>VIAL B, DAB Substrate Buffer 4 x 6ml, 0.1% H<sub>2</sub>O<sub>2</sub> in Citric acid buffer</p>
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<b>Additional Reagents Required</b>	<p>1) Primary antibody and positive control</p> <p>2) Phosphate Buffered Saline (PBS), pH7.4 (+ 0.2)</p> <p>3) Counterstain</p> <p>4) Mounting media</p>
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Bio-Rad can supply a number of these products separately, please see the 'Recommended Useful Reagents' section.

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<b>Instructions For Use</b>	Instructions for use can be found at <a href="http://www.bio-rad-antibodies.com/uploads/IFU/STAR3000A.pdf">www.bio-rad-antibodies.com/uploads/IFU/STAR3000A.pdf</a>
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<b>References</b>	<p>1. Nishimoto, K. <i>et al.</i> (2010) Association of EMCN with Susceptibility to Rheumatoid Arthritis in a Japanese Population. <a href="#">J Rheumatol. 38: 221-8.</a></p> <p>2. Dedrick, G.S. <i>et al.</i> (2011) Immunohistochemical study of human costotransverse joints: A preliminary investigation. <a href="#">Clin Anat. 24 (6): 741-7.</a></p> <p>3. Alexopoulou, Z. <i>et al.</i> (2016) Deubiquitinase Usp8 regulates α-synuclein clearance and modifies its toxicity in Lewy body disease. <a href="#">Proc Natl Acad Sci U S A. Jul 21. pii: 201523597. [Epub ahead of print]</a></p>
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<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10233 #10362 #10282 #10456 #10185 #10090 available at: Peroxide Blocking Reagent (10233): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10233.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10233.pdf</a> Serum Block (10362): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10362.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10362.pdf</a> Reagent Boost (10282): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10282.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10282.pdf</a> HRP Polymer (10456): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10456.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10456.pdf</a> DAB Chromagen (10185): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10185.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10185.pdf</a> DAB Substrate Buffer (10090): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10090.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10090.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

[10X PHOSPHATE BUFFERED SALINE \(BUF036A\)](#)

[PERMANENT AQUEOUS MOUNTING MEDIUM \(BUF058A\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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Printed on 18 May 2021