

# Product Datasheet

## Fibroblast Antibody (ER-TR7) - BSA Free NB100-64932SS

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-64932SS**

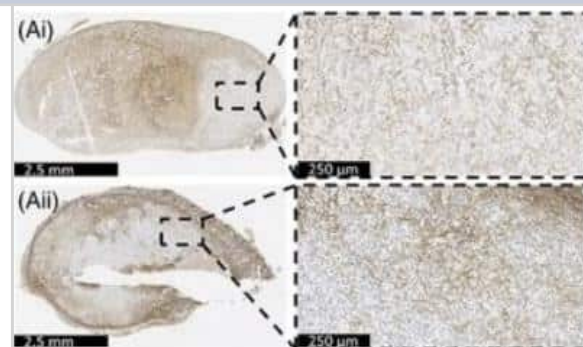
Fibroblast Antibody (ER-TR7) - BSA Free

Product Information	
Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	ER-TR7
Preservative	0.02% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Rat
Species	Mouse
Marker	Fibroblast Marker
Specificity/Sensitivity	NB100-64932 recognizes ER-TR7, an antigen that is located in the cytoplasm of reticular fibroblasts and is a component of the extracellular matrix of lymphoid and non-lymphoid organs. The antigen recognized by clone ER-TR7 has not been identified but studies suggest that it is likely to be distinct from laminin, fibronectin, collagen types I-IV, heparin sulphate proteoglycan, entactin and nidogen. Clone ER-TR7 has been used to stain the microanatomy of various organs and also stains subendothelial deposits in atherosclerotic plaques.
Immunogen	Isolated C3H thymic stromal cells
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:300-1:500. Use reported in scientific literature (PMID 22042977), Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin reported in scientific literature (PMID 35794106), Immunohistochemistry-Frozen 1:500
Application Notes	Membrane permeabilisation is required for Flow Cytometry.

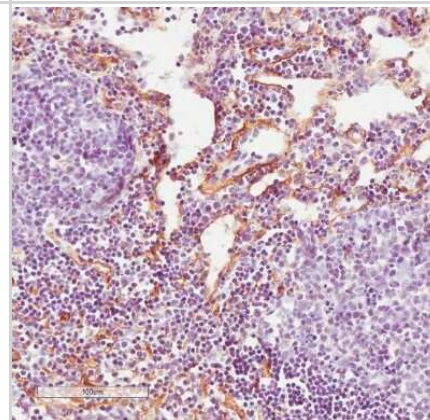


## Images

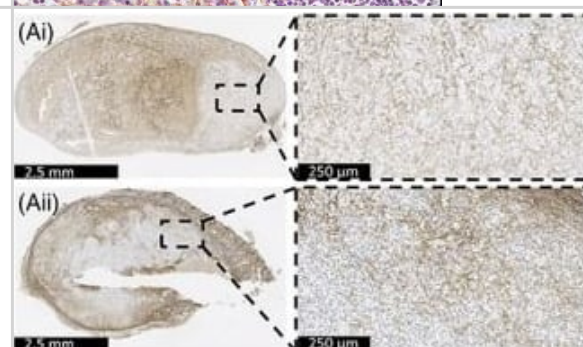
Immunohistochemistry: Fibroblast Antibody (ER-TR7) [NB100-64932] - (Ai-Aii) Representative ER-TR7 stained sections from xenograft tumors harvested at day 7. (Ai) Untreated, (Aii) Pt. Image collected and cropped by CiteAb from the following publication ([onlinelibrary.wiley.com/doi/full/10.1002/jbm.b.34254](https://onlinelibrary.wiley.com/doi/full/10.1002/jbm.b.34254)), licensed under a CC-BY license.



Immunohistochemistry-Frozen: Fibroblast Antibody (ER-TR7) [NB100-64932] - Fibroblast Antibody (ER-TR7) IHC on Mouse lymph node, frozen section, 20x. Primary antibody diluted 1:500. This image was submitted via customer Review.



The effects of biomaterials on fibroblast (ER-TR7) infiltration and collagen deposition within tumor tissue. (Ai-Aii) Representative ER-TR7 stained sections from xenograft tumors harvested at day 7. (Ai) Untreated, (Aii) Pt. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30367816>), licensed under a CC-BY licence.



## Publications

McCorkell KA, Jayachandran N, Cully MD Et al. Lymph node formation and B cell homeostasis require IKK-alpha in distinct endothelial cell-derived compartments Proceedings of the National Academy of Sciences of the United States of America 2021-11-30 [PMID: 34810256]

Plá V, Bitsika S, Giannetto M et al. Structural characterization of SLYM - a 4thmeningeal membrane bioRxiv 2023-10-24 [PMID: 38098084] (IHC-P, Mouse)

Bianco R, Di Gregoli K, Caputo M et al. A Protocol for a Novel Human Ex Vivo Model of Aneurysm STAR Protocols 2020-12-30 [PMID: 33377004]

Lu W, Meng Z, Hernandez R, Zhou C. Fibroblast-specific IKK-? deficiency ameliorates angiotensin II-induced adverse cardiac remodeling in mice JCI Insight 2021-09-22 [PMID: 34324438] (ICC/IF)

Ugur M, Labios RJ, Fenton C et al. Lymph node medulla regulates the spatiotemporal unfolding of resident dendritic cell networks Immunity 2023-07-07 [PMID: 37463581] (ICC/IF)

Details:

Alexa Fluor 700 conjugation used

Ontsouka E, Schroeder M, Ok L et al. The Placenta-A New Source of Bile Acids during Healthy Pregnancy? First Results of a Gene Expression Study in Humans and Mice International journal of molecular sciences 2023-05-30 [PMID: 37298459] (FLOW, Human)

Quintana J, Sinton M, Chandrasegaran P et al. The murine meninges acquire lymphoid tissue properties and harbour autoreactive B cells during chronicTrypanosoma bruceiinfection bioRxiv 2023-04-30 (IHC-P, Mouse)

Details:

IHC-P 1:100

Ishigaki K, Kumano K, Fujita K, Ueno H Cellular basis of omentum activation and expansion revealed by single-cell RNA sequencing using a parabiosis model Sci Rep 2021-07-07 [PMID: 34230565]

Mestre H, Verma N, Greene TD et al. Periarteriolar spaces modulate cerebrospinal fluid transport into brain and demonstrate altered morphology in aging and Alzheimer's disease Nature communications 2022-07-06 [PMID: 35794106] (IHC-P, IF/IHC, Mouse)

Alam J, Ogawa K Expression and localisation of ephrin-B1 and EphB4 in steroidogenic cells in the naturally cycling mouse ovary Reproductive biology 2021-05-12 [PMID: 33991765]

Kim SH, Singh R, Han C et al Chronic activation of 4-1BB signaling induces granuloma development in tumor-draining lymph nodes that is detrimental to subsequent CD8(+) T cell responses Cell Mol Immunol 2020-09-02 [PMID: 32868911] (IHC-Fr, Mouse)

Details:

Citation using the DyLight 488 version of this antibody.

Dorrier CE, Aran D, Haenelt EA et al. CNS fibroblasts form a fibrotic scar in response to immune cell infiltration Nature neuroscience 2021-02-01 [PMID: 33526922]

More publications at <http://www.novusbio.com/NB100-64932>



## Procedures

### Immunohistochemistry-Paraffin protocol for Fibroblast Antibody (NB100-64932)

#### Immunohistochemistry-Paraffin Embedded Sections

##### Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

##### Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-  
techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

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