

Product Datasheet

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

Unit Size: 0.125 mg

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

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NB100-64932

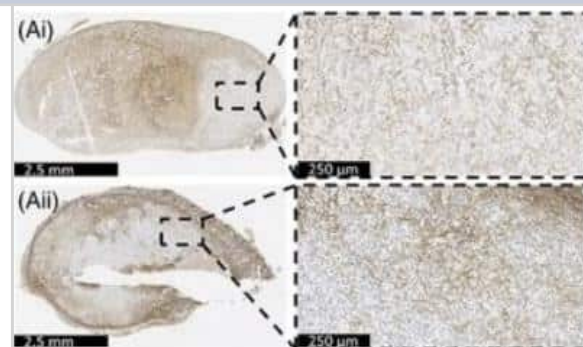
Fibroblast Antibody (ER-TR7) - BSA Free

Product Information	
Unit Size	0.125 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	
Description	Novus Biologicals Rat Fibroblast Antibody (ER-TR7) - BSA Free (NB100-64932) is a monoclonal antibody validated for use in IHC, Flow and ICC/IF. Anti-Fibroblast Antibody: Cited in 27 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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	Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
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.

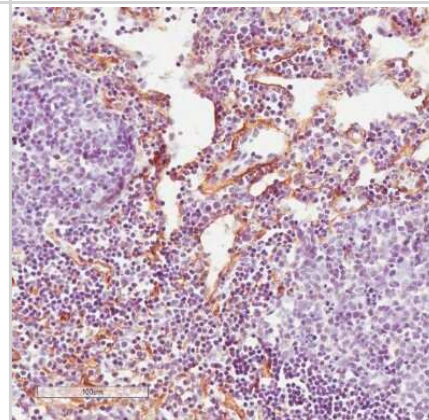


Images

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), 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.



Publications

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] (Immunohistochemistry, Mouse)

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

Bejarano L, Kauzlaric A, Lamprou E, Lourenco J et Al. Interrogation of endothelial and mural cells in brain metastasis reveals key immune-regulatory mechanisms Cancer Cell 2024-01-19 [PMID: 38242126]

Watson SS, Zomer A, Fournier N, Lourenco J et Al. Fibrotic response to anti-CSF-1R therapy potentiates glioblastoma recurrence Cancer Cell 2024-09-10 [PMID: 39255775]

Taylor X, Noristani HN, Fitzgerald GJ et al. Amyloid- β (A β) immunotherapy induced microhemorrhages are linked to vascular inflammation and cerebrovascular damage in a mouse model of Alzheimer's disease Molecular Neurodegeneration 2024-10-21 [PMID: 39434125]

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)

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 Cytometry, 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 (Immunohistochemistry-Paraffin, 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)

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.





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Products Related to NB100-64932

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
NB100-64932AF647	Fibroblast Antibody (ER-TR7) [Alexa Fluor® 647]

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

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