

# Product Datasheet

## Oval Cell Marker Antibody (MIC1-1C3) - BSA Free NBP1-18961

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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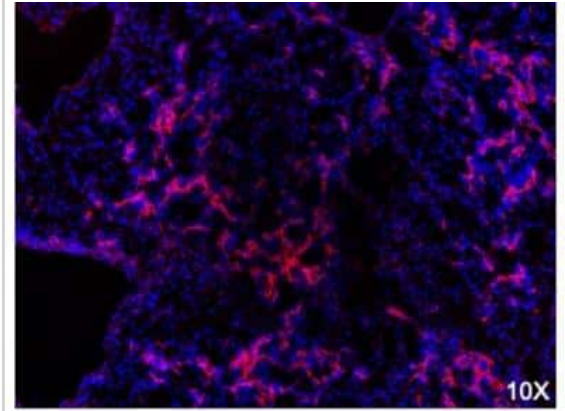
**NBP1-18961****Oval Cell Marker Antibody (MIC1-1C3) - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	MIC1-1C3
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG2a
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rat Oval Cell Marker Antibody (MIC1-1C3) - BSA Free (NBP1-18961) is a monoclonal antibody validated for use in IHC, Flow and ICC/IF. Anti-Oval Cell Marker Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rat
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Human reactivity reported in scientific literature (PMID: 30236451).
<b>Marker</b>	Hepatic periductal cell Marker
<b>Specificity/Sensitivity</b>	Specific for hepatic proliferating duct cells.
<b>Immunogen</b>	Nonparenchymal cells from DDC-treated mice
<b>Product Application Details</b>	
<b>Applications</b>	Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
<b>Recommended Dilutions</b>	Flow Cytometry 1:50 - 1:100, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence reported in scientific literature, Immunohistochemistry-Paraffin reported in scientific literature, Immunohistochemistry-Frozen 1:100, CyTOF-ready
<b>Application Notes</b>	This Oval Cell Marker (MIC1-1C3) antibody is useful for Immunohistochemistry on acetone fixed frozen sections and Flow cytometry. This antibody is CyTOF ready.

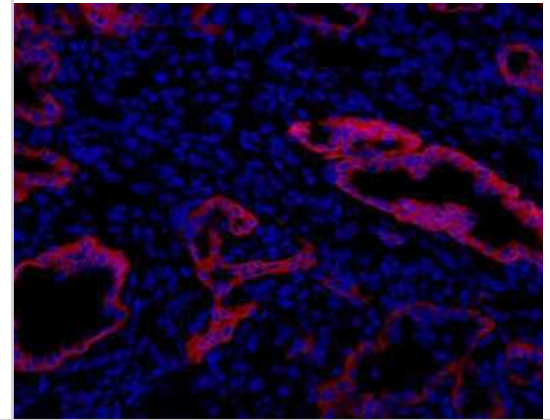


## Images

Immunohistochemistry-Frozen: Oval Cell Marker Antibody (MIC1-1C3) [NBP1-18961] - Ductular reaction in injured mouse liver. MIC1-1C3 (red) and DAPI (blue). IHC-Fr image submitted by a verified customer review.



Immunohistochemistry: Oval Cell Marker Antibody (MIC1-1C3) [NBP1-18961] - Analysis of DDC treated mouse liver.



## Publications

Krishnan, A;Ozturk, NB;Cutshaw, KA;Guicciardi, ME;Kitagataya, T;Olson, KE;Pavelko, KD;Sherman, W;Wixom, AQ;Jalan-Sakrikar, N;Baez-Faria, M;Gutierrez, F;Gores, GJ; Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) deletion in myeloid cells augments cholestatic liver injury Scientific reports 2024-01-25 [PMID: 38273071]

Tao Q, Ji H, Zhou Y et al. HDAC3 controls liver homeostasis more by facilitating DNA damage repair than by regulating transcription in hepatocytes Laboratory investigation; a journal of technical methods and pathology 2023-02-17 [PMID: 36801398] (IHC-P, Mouse)

Dorrell C, Tarlow B et al. The organoid-initiating cells in mouse pancreas and liver are phenotypically and functionally similar. Stem Cell Res 2014-01-09 [PMID: 25151611] (FLOW, Mouse)

Beel S, Kolloch L, Apken LH et al. kappa B-Ras and Ral GTPases regulate acinar to ductal metaplasia during pancreatic adenocarcinoma development and pancreatitis Nat Commun 2020-07-08 [PMID: 32641778] (FLOW, Mouse)

Krishnan A, Katsumi T, Guicciardi ME et al. Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand Receptor Deficiency Promotes the Ductular Reaction, Macrophage Accumulation, and Hepatic Fibrosis in the Mdr2<sup>-/-</sup> Mouse Am. J. Pathol. 2020-03-30 [PMID: 32240619] (Mouse)

Tam PKH, Yiu RS, Lendahl U, Andersson ER. Cholangiopathies - Towards a molecular understanding. EBioMedicine 2018-09-01 [PMID: 30236451] (Mouse, Human)

Lu XF, Zhou YJ, Zhang L et al. Loss of Dicer1 impairs hepatocyte survival and leads to chronic inflammation and progenitor cell activation World J. Gastroenterol. 2015-06-07 [PMID: 26074697] (IHC-P, Mouse)

Bird TG, Lu WY, Boulter L et al. Bone marrow injection stimulates hepatic ductular reactions in the absence of injury via macrophage-mediated TWEAK signaling Proc Natl Acad Sci U S A 2013-04-01 [PMID: 23576749] (IHC-P, ICC/IF, Mouse)

Dorrell, C et al. Surface Markers for the Murine Oval Cell Response. Hepatology 48(0):1-10. 2008-01-01 [PMID: 18726953] (IHC-Fr, FLOW, Mouse)

Dorrell C, Erker L, Schug J, Kopp JL, Canaday PS, Fox AJ, Smirnova O, Duncan AW, Finegold MJ, Sander M, Kaestner KH, Grompe M. Prospective isolation of a bipotential clonogenic liver progenitor cell in adult mice. . Genes Dev. 25(11):1193-203. doi: 10.1101/gad.2029411. 2011-06-01 [PMID: 21632826] (FLOW, Mouse)

Dorrell C, Grompe MT, Pan FC, Zhong Y, Canaday PS, Shultz LD, Greiner DL, Wright CV, Streeter PR, Grompe M. Isolation of mouse pancreatic alpha, beta, duct and acinar populations with cell surface markers. Mol Cell Endocrinol;339(1-2):144-50. 2011-06-06 [PMID: 21539888] (FLOW, Mouse)

Lu L, Li Y, Kim SM, Bossuyt W, Liu P, Qiu Q, Wang Y, Halder G, Finegold MJ, Lee JS, Johnson RL. Hippo signaling is a potent in vivo growth and tumor suppressor pathway in the mammalian liver. Proc Natl Acad Sci U S A;107(4):1437-42. 2010-01-26 [PMID: 20080689] (IHC-Fr, Mouse)





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### **Products Related to NBP1-18961**

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)
NBP1-18961PE	Oval Cell Marker Antibody (MIC1-1C3) [PE]

### **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.

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