

# Product Datasheet

## CD31/PECAM-1 Antibody (TLD-3A12) - BSA Free NB100-64796

Unit Size: 0.25 mg

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

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**NB100-64796**

CD31/PECAM-1 Antibody (TLD-3A12) - BSA Free

Product Information	
Unit Size	0.25 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	TLD-3A12
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	82.5 kDa

Product Description	
Host	Mouse
Gene ID	5175
Gene Symbol	PECAM1
Species	Rat
Reactivity Notes	Predicted cross-reactivities: Rhesus Monkey, Porcine
Immunogen	Activated, Lewis rat derived microglial cells

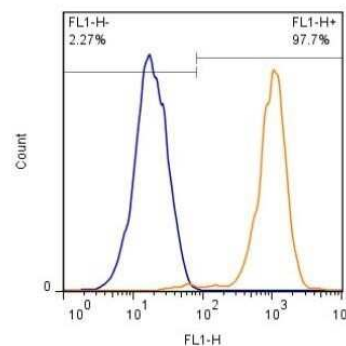
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Flow Cytometry 1:10-1:100, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:100

**Images**

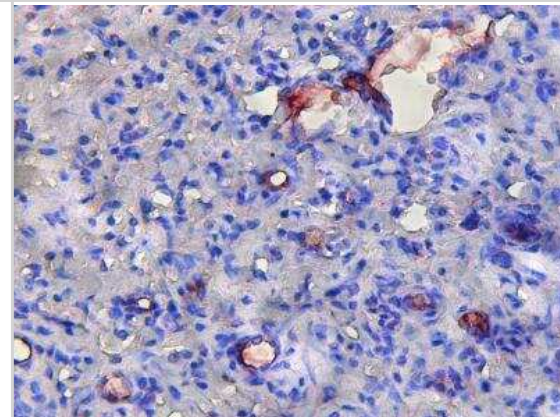
Immunohistochemistry-Frozen: CD31/PECAM-1 Antibody (TLD-3A12) [NB100-64796] - Analysis using the FITC conjugate of CD31/PECAM-1 Antibody (TLD-3A12) (NB100-64796). Staining of rat brain cryosection with Mouse.



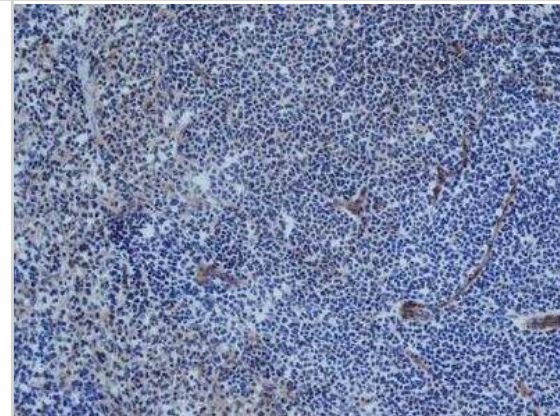
Flow Cytometry: CD31/PECAM-1 Antibody (TLD-3A12) [NB100-64796] - Analysis using the Alexa Fluor (R) 488 conjugate of CD31/PECAM-1 Antibody (TLD-3A12) (NB100-64796). Staining of PBMC's (Monocyte gate at  $1 \times 10^6$  cells/ml) with CD31 antibody (orange) stained at a dilution of 1:500. Shown with mIgG (AF488) isotype control (blue).



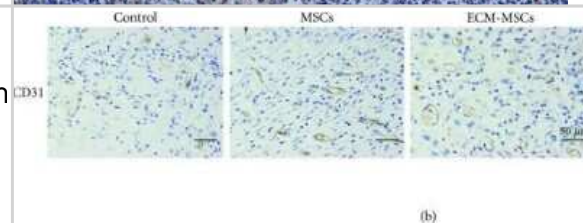
Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (TLD-3A12) [NB100-64796] - Analysis of CD31 in 4th day cutaneous wound section of diabetic rat using CD31/PECAM-1 Antibody (TLD-3A12). Image from verified customer review.



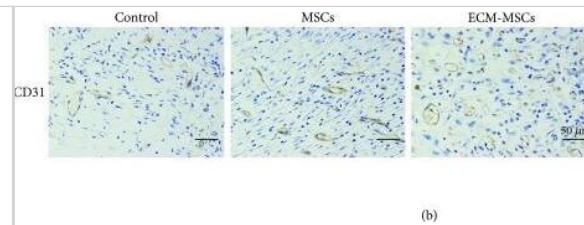
Immunohistochemistry-Frozen: CD31/PECAM-1 Antibody (TLD-3A12) [NB100-64796] - Analysis using the FITC conjugate of CD31/PECAM-1 Antibody (TLD-3A12) (NB100-64796). Staining of rat spleen cryosection.



Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (TLD-3A12) [NB100-64796] - IHC analysis for the expression of CD31 of wound tissues of different groups of rats (magnification 200).  $n = 6$ ,  $**P$  less than 0.01. Image collected and cropped by CiteAb from the following publication (<http://www.hindawi.com/journals/sci/2019/9564869/>) licensed under a CC-BY license.



(a) HE staining for wound tissues of different groups of rats (magnification  $\times 40$ ). (b) IHC analysis for the expression of CD31 of wound tissues of different groups of rats (magnification  $\times 200$ ).  $n = 6$ ,  $\square \square P < 0.01$ .



## Publications

Parfenov AI, Krums LM, Bykova SV, Ahmadullina OV. [Chronic intestinal pseudo-obstruction]. *Terapevticheskii arkhiv* 2021-03-17 [PMID: 33720566]

Boscolo Sesillo F, Wong M, Cortez A, Alperin M. Isolation of muscle stem cells from rat skeletal muscles *Stem Cell Research* 2020-03-01 [PMID: 31931473]

Celikten M, Sahin H, Senturk GE et al. The Effect of Platelet-Rich Fibrin, Platelet-Rich Plasma, and Concentrated Growth Factor in the Repair of Full Thickness Rotator Cuff Tears *Journal of shoulder and elbow surgery* 2023-10-26 [PMID: 37898418] (IHC-P, Rabbit)

Jin H, Yang B, Jiang D et al. Inhibitory effect of anti-Scg3 on corneal neovascularization: a preliminary study *BMC Ophthalmology* 2022-11-28 [PMID: 36443679] (Immunocytochemistry/ Immunofluorescence)

Mani AM, Dhanabalan K, Lamin V et al. BAG3 Attenuates Ischemia-Induced Skeletal Muscle Necroptosis in Diabetic Experimental Peripheral Artery Disease *International Journal of Molecular Sciences* 2022-09-14 [PMID: 36142618] (Immunohistochemistry)

Lu W, Zhao R, Fan X et al. Time-varying characteristics of the induced membrane and its effects on bone defect repair *Injury* 2022-12-24 [PMID: 36581479]

Zhan X, Wen Z, Chen Y et al. Protocol to assemble metal-phenolic framework nanoparticles based on polyphenol-mediated biomimetic mineralization for wound healing in rats *STAR protocols* 2023-02-24 [PMID: 36861839] (IHC, Mouse)

Spyridakos D, Mastrodimou N, Vemuri K et al. Blockade of CB1 or Activation of CB2 Cannabinoid Receptors Is Differentially Efficacious in the Treatment of the Early Pathological Events in Streptozotocin-Induced Diabetic Rats *International Journal of Molecular Sciences* 2022-12-23 [PMID: 36613692] (IHC-Fr, Rat)

Zhou m, Li Y, Tang S Dual orexin receptor antagonists and Tgn-020 affect learning and memory in 8-mth-old APP / PS1 (AD) mice *Research Square* 2022-12-09 (IHC, Mouse)

Wang H, Li X, Lai S et al. Construction of Vascularized Tissue Engineered Bone with nHA-Coated BCP Bioceramics Loaded with Peripheral Blood-Derived MSC and EPC to Repair Large Segmental Femoral Bone Defect *ACS applied materials & interfaces* 2022-12-22 [PMID: 36548196]

Lamin V, Verry J, Dokun OS et al. microRNA-29a Regulates ADAM12 Through Direct Interaction With ADAM12 mRNA and Modulates Postischemic Perfusion Recovery *Journal of the American Heart Association* 2022-08-16 [PMID: 35946473] (IHC-P, Mouse)

Details:  
IHC-P 1:1000 dilution

Tamura S, Mantani Y, Nakanishi S et al. Region specificity of fibroblast-like cells in the mucosa of the rat large intestine *Cell and tissue research* 2022-07-02 [PMID: 35779135]

More publications at <http://www.novusbio.com/NB100-64796>



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### **Products Related to NB100-64796**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB100-63703-100ug	CD31/PECAM-1 Antibody (TLD-3A12) [FITC]

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### **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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