

# Product Datasheet

## CD31/PECAM-1 Antibody (TLD-3A12) [FITC] NB100-63703-100ug

Unit Size: 100 ug

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

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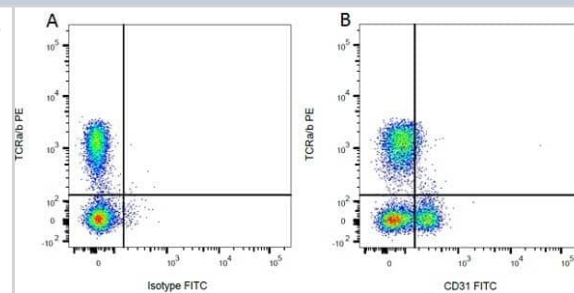


**NB100-63703-100ug****CD31/PECAM-1 Antibody (TLD-3A12) [FITC]**

Product Information	
Unit Size	100 ug
Concentration	0.1 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
Conjugate	FITC
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	Flow Cytometry
Recommended Dilutions	Flow Cytometry Neat
Application Notes	Clone TLD-3A12 has been shown to partially block the proliferative response of antigen-specific CD4+ T cells to antigen-presenting cells and relevant antigen. For Flow Cytometry: Use 10 ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100 ul. For IHC-P: The staining of endothelium may be enhanced on FFPE tissue by pre-treatment with 0.2M boric acid pH7.0, See Wilson et al. Immunocytochemistry/Immunofluorescence was reported in scientific literature.

**Images**

Flow Cytometry: CD31/PECAM-1 Antibody (TLD-3A12) [FITC] - [NB100-63703] - Figure A. RPE conjugated mouse anti rat TCRa/b and FITC conjugated mouse IgG1 isotype control Figure B. and FITC conjugated mouse anti rat CD31. All experiments performed on red cell lysed rat blood gated on mononuclear cells.



## Publications

Nakao A, Huang CS, Stolz DB et al. Ex vivo carbon monoxide delivery inhibits intimal hyperplasia in arterialized vein grafts. *Cardiovasc Res.* 2011-02-01 [PMID: 20851811]

Salehi-Had H, Roh MI, Giani A et al. Utilizing targeted gene therapy with nanoparticles binding alpha v beta 3 for imaging and treating choroidal neovascularization *PLoS One* 2011-04-01 [PMID: 21559527]

### Details:

This citation used the FITC version of this antibody.

Lochhead JJ, McCaffrey G, Quigley CE et al. Oxidative stress increases blood-brain barrier permeability and induces alterations in occludin during hypoxia-reoxygenation. *J Cereb Blood Flow Metab.* 2010-09-01 [PMID: 20234382]

Willis CL, Meske DS, Davis TP et al. Protein kinase C activation modulates reversible increase in cortical blood-brain barrier permeability and tight junction protein expression during hypoxia and posthypoxic reoxygenation. *J Cereb Blood Flow Metab.* 2010-11-01 [PMID: 20700133]

Thebault P, Lhermite N, Tilly G et al. The C-type lectin-like receptor CLEC-1, expressed by myeloid cells and endothelial cells, is up-regulated by immunoregulatory mediators and moderates T cell activation. *J Immunol.* 2009-09-01 [PMID: 19667084]

Stevenson KS, McGlynn L, Hodge M et al. Isolation, characterization, and differentiation of thy1.1-sorted pancreatic adult progenitor cell populations. *Stem Cells Dev.* 2009-12-01 [PMID: 19326970]

Kielian T, Hickey WF. Proinflammatory cytokine, chemokine, and cellular adhesion molecule expression during the acute phase of experimental brain abscess development. *Am J Pathol.* 2000-08-01 [PMID: 10934167]





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### **Products Related to NB100-63703-100ug**

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NBP1-96849	Mouse IgG1 Isotype Control (MG1) [FITC]
NB100-63701	CD31/PECAM-1 Antibody (TLD-3A12) [Biotin]
NBP2-54655PEP	CD31/PECAM-1 Recombinant Protein Antigen
210-TA-005	TNF-alpha [Unconjugated]

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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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