

Datasheet for ABIN7540327

Recombinant anti-CD31 antibody (Extracellular Domain) (Atto 647N)



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2 Images

Overview

Quantity:	100 µL
Target:	CD31 (PECAM1)
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Alpaca
Expression System:	E.coli
Antibody Type:	Recombinant Antibody
Clonality:	Multiclonal
Conjugate:	This CD31 antibody is conjugated to Atto 647N
Application:	Immunofluorescence (IF), Immunofluorescence (fixed cells) (IF/ICC), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Purpose:	Alpaca anti-human CD31 VHH is a carefully developed and validated nanobody (single-domain antibody) binding to human CD31 (PECAM-1) highly suitable for tissue staining.
Brand:	LIMAAbody®
Immunogen:	Recombinant protein containing the extracellular domain of murine CD31 protein.
Clone:	2MAC4-2PEC47-3MAC24-3MAC69-3MAC82-3PEC92
Fragment:	single-domain Antibody (sdAb)
Specificity:	Detects endogenous levels of total human CD31 protein.

Product Details

Cross-Reactivity (Details):	does not cross-react with mouse CD31 based on qualitative analysis
Characteristics:	VHH protein tag: C-terminal (6x) His-Tag
Purification:	Affinity-purified antibody fragment.

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	CD31 (PECAM1 Products)
Background:	CD31, also known as PECAM-1, is an adhesion molecule, which is expressed on endothelial cells at intercellular junctions and various T cell subsets. It is also found to be expressed on platelets, as well as most other leukocytes including monocytes and neutrophils. CD31 facilitates homotypic binding to itself, as well as heterotypic binding to the leukocyte integrins. CD31 plays a crucial role in facilitating the transendothelial migration of leukocytes through the intercellular junctions of vascular endothelial cells.
Molecular Weight:	82 kDa
NCBI Accession:	NP_000433
UniProt:	P16284
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	Immunofluorescence: 10 µg/mL (frozen sections), 5 µg/mL (cell culture), 20 µg/mL (wholemount)
Comment:	VHH protein tag: C-terminal (6x) His-Tag
Restrictions:	For Research Use only

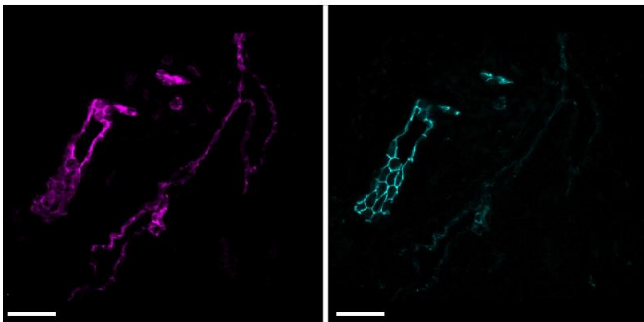
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, pH 7.4, 0.02% sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

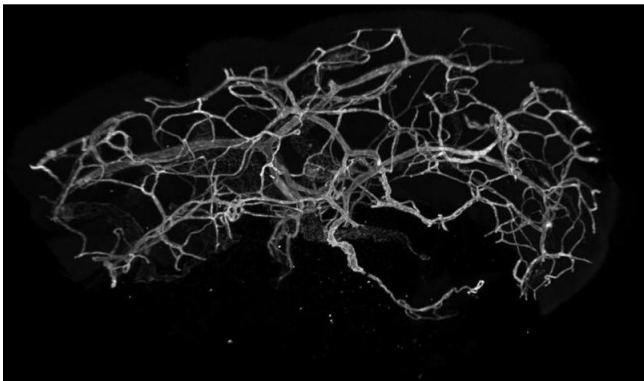
	should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Upon receipt store at 4°C. Stable for 6 months. Do not freeze.
Expiry Date:	6 months

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of human skin frozen section using CD31 (JC/70, 1.12 µg/mL) Mouse mAb, Alexa Fluor® 568 (left, control) and CD31 (2MAC4, 2PEC47, 3MAC24, 3MAC69, 3MAC82, 3PEC82, 10 µg/mL) polyclonal LIMAAbody®, labelled with Alexa Fluor® 647 (right) imaged on Zeiss Observer 7.



Immunofluorescence

Image 2. Immunofluorescence analysis of entire human skin, optically cleared with BABB, using CD31 (2MAC4, 2PEC47, 3MAC24, 3MAC69, 3MAC82, 3PEC82, 20 µg/mL) polyclonal LIMAAbody®, labelled with Alexa Fluor® 647 imaged on Zeiss LS7.