Datasheet for ABIN7540328

Recombinant anti-CD31 antibody (Extracellular Domain)

4 Images

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Overview

Quantity:	200 µL
Target:	CD31 (PECAM1)
Binding Specificity:	Extracellular Domain
Reactivity:	Mouse
Host:	Alpaca
Expression System:	E.coli
Antibody Type:	Recombinant Antibody
Clonality:	Multiclonal
Conjugate:	This CD31 antibody is un-conjugated
Application:	Immunofluorescence (IF), Immunofluorescence (fixed cells) (IF/ICC), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Purpose:	Alpaca anti-mouse CD31 VHH is a carefully developed and validated nanobody (single-domain antibody) binding to human CD31 (PECAM-1) highly suitabe for tissue staining.
Brand:	LIMAAbody®
Immunogen:	Recombinant protein containing the extracellular domain of murine CD31 protein.
Clone:	3ELC120-3ELC140-3ELC105-3ELC143
Fragment:	single-domain Antibody (sdAb)
Specificity:	Detects endogenous levels of total murine CD31 protein.

Product Details

Cross-Reactivity (Details):	not analysed
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 and is expressed on endothelial cells at intercellular junctions and various T cell subsets. It shows altered expression levels in arterial, venous and lymphatic vessels. It is also found to a lesser extent 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 integrin alpha V beta III. CD31 plays a crucial role in facilitating the transendothelial migration of leukocytes through the intercellular junctions of vascular endothelial cells. It is one of key regulatory molecules in vascular system.
Molecular Weight:	81 kDa
NCBI Accession:	NP_033868
UniProt:	Q08481
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	Immunofluorescence: 10 µg/mL (frozen sections), 1 µg/mL (cell culture), 20 µg/mL (wholemount)
Comment:	VHH protein tag: C-terminal (6x) His-Tag
Restrictions:	For Research Use only

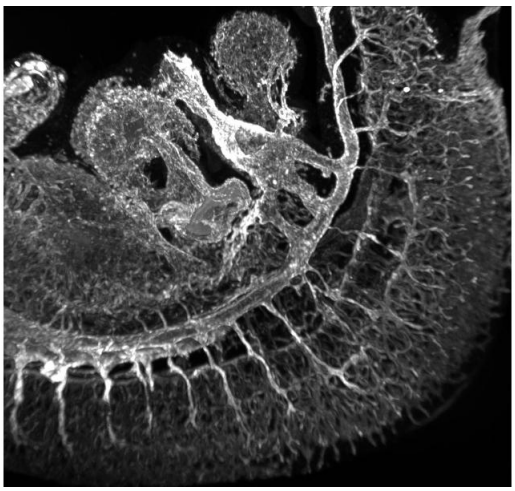
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, pH 7.4, 0.02% sodium azide
Preservative:	Sodium azide

Handling

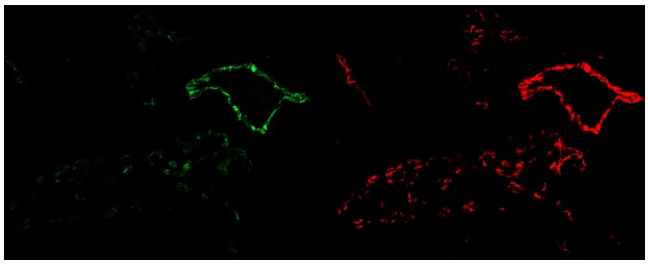
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Upon receipt store at 4°C. Stable for 6 months. Do not freeze.
Expiry Date:	6 months

Images



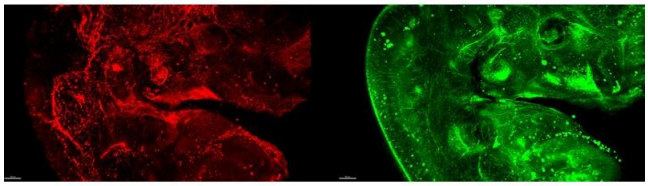
Immunofluorescence

Image 1. Immunofluorescence Staining of entire E10.5 mouse embryo, optical cleared with BABB, using Anti-CD31 (Mouse) LIMAAbody® (3ELC120, 3ELC140, 3ELC105, 3ELC143, 20 µg/mL) polyclonal nanobodies, Alexa Fluor® 647 on Zeiss LS7. // Excerpt from CD31_Mouse_wholemount_embryo_1



Immunofluorescence

Image 2. Immunofluorescence analysis of mouse embryo frozen section using using CD31 (MEC13.3, 5 µg/mL) Mouse mAb, Alexa Fluor® 568 on Zeiss Observer 7 (left, control) and Anti-CD31 LIMAAbody® (3ELC120, 3ELC140, 3ELC105, 3ELC143, 10 µg/mL) polyclonal nanobodies on Alexa Fluor® 647 on Zeiss Observer 7. Visualization of the same histological section for MEC13.3 and polyclonal murine CD31 nanobody.



Immunofluorescence

Image 3. Immunofluorescence Staining of entire E10.5 mouse embryo, optical cleared with BABB, using CD31 (MEC13.3, 5 µg/mL) Mouse mAb, Alexa Fluor® 568 (red) and Anti-CD31 LIMAAbody® (3ELC120, 3ELC140, 3ELC105, 3ELC143, 20 µg/mL) polyclonal nanobodies, Alexa Fluor® 647 (green) on Zeiss LS7. Visualization of the same embryo for MEC13.3 and polyclonal murine CD31 nanobody.

Please check the product details page for more images. Overall 4 images are available for ABIN7540328.