Datasheet for ABIN7540339

Recombinant anti-CD56 antibody (Extracellular Domain) (Atto 647N)

3 Images

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Overview

Quantity:	100 µL
Target:	CD56 (NCAM1)
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Alpaca
Expression System:	E.coli
Antibody Type:	Recombinant Antibody
Clonality:	Multiclonal
Conjugate:	This CD56 antibody is conjugated to Atto 647N
Application:	Immunofluorescence (IF), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (fixed cells) (IF/ICC)

Product Details

Purpose:	Alpaca anti-human CD56 VHH is a carefully developed and validated nanobody (single-domain antibody) binding to human CD56 and highly suitable for tissue stainings.
Brand:	LIMAAbody®
Immunogen:	Recombinant protein containing the extracellular domain of human CD56 protein.
Clone:	3FIF12-2FIF67
Fragment:	single-domain Antibody (sdAb)
Specificity:	Detects endogenous levels of total human CD56 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:	CD56 (NCAM1)
Alternative Name:	CD56 (NCAM1 Products)
Background:	CD56, also known as Neural Cell Adhesion Molecule (NCAM), is a glycoprotein expressed on neurons, glial cells, skeletal muscle, NK cells, and some T-cells. It belongs to the immunoglobulin superfamily, with five immunoglobulin-like domains and two fibronectin type III repeats, enabling cell adhesion and signaling. In the nervous system, NCAM is vital for neurodevelopment, synaptic plasticity, and response to injury. In the immune system, it influences NK cell function and development. Abnormal NCAM expression is linked to neurodevelopmental and neurodegenerative disorders, as well as cancers, making it a crucial biomarker and therapeutic target.
Molecular Weight:	95 kDa
NCBI Accession:	NP_001070150
UniProt:	P13591

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

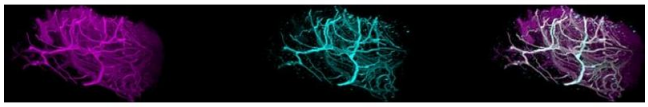
Handling

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

Handling

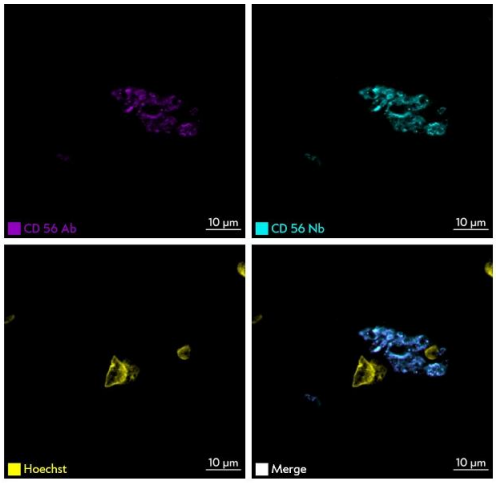
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Upon receipt store at 4°C. Stable for 6 months. Do not freeze.
Expiry Date:	6 months

Images



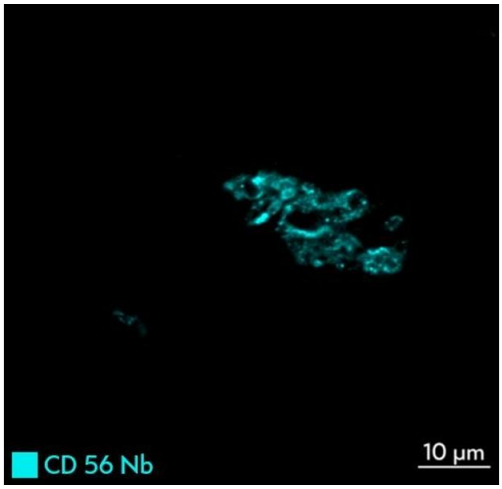
Immunofluorescence

Image 1. Immunofluorescence wholemount staining of a human pancreatic tissue sample, optical cleared with BABB, using CD56 (MRQ-42, 1:100) Rabbit mAb, Alexa Fluor® 568 (magenta) and Anti-CD56 LIMAAbody® (3FIF12, 2FIF67, 20 µg/mL) polyclononal nanobodies, Alexa Fluor® 647 (blue) on Zeiss LS7. Visualization of the same tissue sample for MRQ-42 and polyclonal human CD56 nanobody.



Immunofluorescence

Image 2. Immunofluorescence staining of human appendix tissue sample. Shown are immunofluorescence-stained tissue section of human appendix with CD56 (MRQ-42, 1:100) Rabbit mAB, AlexaFluor® 568 (magenta) and CD56 (3FIF12, 2FIF67, 10 µg/mL) polyclonal LIMAAbody®, AlexaFluor® 647 (blue) and cell nuclei with Hoechst 33342 dye (yellow). Scale 10µm.



Immunofluorescence

Image 3. Immunofluorescence staining of human appendix tissue sample. Shown are immunofluorescence-stained tissue section of human appendix with CD56 (MRQ-42, 1:100) Rabbit mAB, AlexaFluor® 568 (magenta) and CD56 (3FIF12, 2FIF67, 10 µg/mL) polyclonal LIMAAbody®, AlexaFluor® 647 (blue) and cell nuclei with Hoechst 33342 dye (yellow). Scale 10µm. // Excerpt from CD56 Human_cryo section_appendix_panel

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