

Anti-ALCAM / CD166 Reference Antibody (praluzatamab)

Recombinant Antibody

Catalog # APR10071

Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	Q13740
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	65102

Additional Information

Target/Specificity	ALCAM / CD166
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO Cell
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

Protein Information

Name	ALCAM
Synonyms	MEMD {ECO:0000303 PubMed:9502422}
Function	Cell adhesion molecule that mediates both heterotypic cell- cell contacts via its interaction with CD6, as well as homotypic cell- cell contacts (PubMed: 15048703 , PubMed: 15496415 , PubMed: 16352806 , PubMed: 23169771 , PubMed: 24945728 , PubMed: 7760007). Promotes T-cell activation and proliferation via its interactions with CD6 (PubMed: 15048703 , PubMed: 16352806 , PubMed: 24945728). Contributes to the formation and maturation of the immunological synapse via its interactions with CD6 (PubMed: 15294938 , PubMed: 16352806). Mediates homotypic interactions with cells that express ALCAM (PubMed: 15496415 , PubMed: 16352806). Acts as a ligand for the LILRB4 receptor, enhancing LILRB4-mediated inhibition of T cell proliferation (PubMed: 29263213). Required for normal hematopoietic stem cell engraftment in the bone marrow (PubMed: 24740813). Mediates attachment of dendritic cells onto endothelial cells via homotypic interaction (PubMed: 23169771). Inhibits endothelial cell migration and promotes endothelial tube formation via homotypic interactions (PubMed: 15496415 , PubMed: 23169771). Required for normal organization of the lymph vessel network. Required for normal hematopoietic stem cell engraftment in the

bone marrow. Plays a role in hematopoiesis; required for normal numbers of hematopoietic stem cells in bone marrow. Promotes in vitro osteoblast proliferation and differentiation (By similarity). Promotes neurite extension, axon growth and axon guidance; axons grow preferentially on surfaces that contain ALCAM. Mediates outgrowth and pathfinding for retinal ganglion cell axons (By similarity).

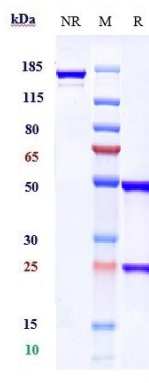
Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q61490}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q61490}. Note=Detected at the immunological synapse, i.e, at the contact zone between antigen-presenting dendritic cells and T-cells (PubMed:15294938, PubMed:16352806). Colocalizes with CD6 and the TCR/CD3 complex at the immunological synapse (PubMed:15294938).

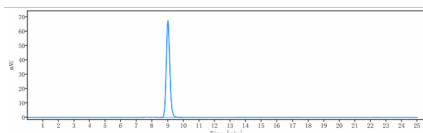
Tissue Location

Detected on hematopoietic stem cells derived from umbilical cord blood (PubMed:24740813). Detected on lymph vessel endothelial cells, skin and tonsil (PubMed:23169771). Detected on peripheral blood monocytes (PubMed:15048703). Detected on monocyte- derived dendritic cells (at protein level) (PubMed:16352806). Detected at low levels in spleen, placenta, liver (PubMed:9502422). Expressed by activated T-cells, B-cells, monocytes and thymic epithelial cells (PubMed:7760007). Isoform 1 and isoform 3 are detected in vein and artery endothelial cells, astrocytes, keratinocytes and artery smooth muscle cells (PubMed:15496415). Expressed by neurons in the brain Restricted expression in tumor cell lines. Detected in highly metastasizing melanoma cell lines (PubMed:9502422)

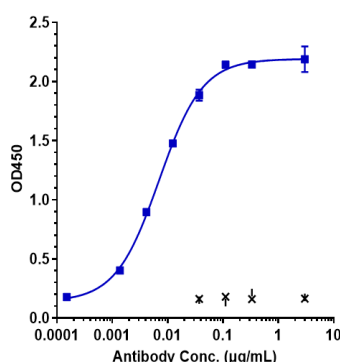
Images



Anti-ALCAM / CD166 Reference Antibody (praluzatamab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-ALCAM / CD166 Reference Antibody (praluzatamab) is more than 100% ,determined by SEC-HPLC.



Immobilized human ALCAM His at 2 µg/mL can bind Anti-ALCAM / CD166 Reference Antibody (praluzatamab), EC₅₀=0.00698 µg/mL

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