

Recombinant Human ALCAM (C-Fc)

Catalog #	EPT251
Expression Host	Human Cells
DESCRIPTION	Recombinant Human CD166 Antigen is produced by
	our Mammalian expression system and the target
	gene encoding Trp28-Ala526 is expressed with a Fc
	tag at the C-terminus.
Accession	Q13740
Synonyms	CD166 antigen; Activated leukocyte cell adhesion
	molecule; CD166; ALCAM; MEMD
Mol Mass	82.7 KDa
AP Mol Mass	110-125 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH
	7.4.
RECONSTITUTION	Always centrifuge tubes before opening.Do not mix by



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vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING The product is shipped at ambient temperature.Upon receipt, store it immediately at the temperature listed below.

STORAGELyophilized protein should be stored at < -20 ° C,
though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7 °C
for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

BACKGROUND Activated leukocyte cell adhesion molecule (ALCAM), also named as CD166 and MEMD, is a typel transmembrane glycoprotein of immunoglobulin superfamily, which mediates homotypic and heterotypic interactions between cells. ALCAM is expressed on thymic epithelium, microvascular endothelium, activated lymphocytes and monocytes,



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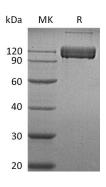
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and monocytederived dendritic cells. ALCAM mediates low-affinity adhesion with itself or the cysteine-rich scavenger receptor CD6 to regulate cell Т development, immunological synapses(IS), and cell migration through endothelial junctions. ALCAM on thymic epithelia mediates adhesion to CD6 on CD4+CD8+ T cells. Adhesion of ALCAM expressing antigen presenting cells and CD6-expressing T cells stabilizes the early IS, while later it enhances CD3 effects on T cell proliferation, CD25 expression, and Th1 commitment. ALCAM may influence expression or adhesion of the neuronal adhesion molecule NCAML1, both in the developing retina and invasive melanoma.



SDS-PAGE



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