

## 32-8934: Recombinant Human CD166 Antigen (C-Fc)

**Gene :** ALCAM  
**Gene ID :** 214  
**Uniprot ID :** Q13740

### Description

Source: Human cells.  
MW :82.7kD.

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. Activated leukocyte cell adhesion molecule (ALCAM), also named as CD166 and MEMD, is a type I 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, and monocytederived dendritic cells. ALCAM mediates low-affinity adhesion with itself or the cysteine-rich scavenger receptor CD6 to regulate T cell 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 NCAM1, both in the developing retina and invasive melanoma.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized 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.  
**Amino Acid :** WYTVNSAYGDTIIIPCRLDVPQNLNMFQKWKYEKPDGSPVFIARFSSSTKKSQYDDVPEYKDRNLNSENYSISN ARISDEKRFVCMVLTEDNVFEAPTIVKVFQPSKPEIVSKALFLETEQLKKGDCISEDSYPDGNITWYRNGKVLH PLEGAVVIFKKEMDPVTQLYTMTSTLEYKTTKADIQMPFTCSVTYYGPSGQKTIHSEQAVFDIYYPTEQVTIQVLP PKNAIKEGDNITLKLGNPNPPPEEFLYLPQGPEGIRSSNTYTLTDVRRNATGDYKCSLIDKKSMAIATAITVHYL DLSLNPSGEVTRQIGDALPVSCTISASRNATVWWMKDNIRLRSSPSFSSLHYQDAGNYVCETALQVEEGLKKRE SLTLIVEGKPKQIKMTKKTDPGSLKTIICHVEGFPKPAIQWTITGSGSVINQTEESPYINGRYYSKIISPEENVTLTC TAENQLERTVNSLNVSAISIEHDEADEISDENREKVNDQADIEGRMDPKSCDKTHTCPPCPAPPELLGGPSVFLF PPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENN YKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFVSMHEALHNHYTQKSLSLSPGK

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.