Recombinant mouse ALCAM/CD166 protein

Catalog Number: ATGP4055

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
28-527aa

UniProt No.
Q61490

NCBI Accession No.
NP_033785

Alternative Names
Activated leukocyte cell adhesion molecule, ALCAM, Alcam, CD166 antigen, CD166 antigen isoform1, CD166, BEN, Protein DM-GRASP, AI853494 Protein, MuSC, SC1

PRODUCT SPECIFICATION

Molecular Weight
83.1kDa (739aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 50% glycerol

Purity
> 90% by SDS - PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured by its ability to block the adhesion of Jurkat human acute T cell leukemia cells to immobilized Recombinant Human CD6 (CAT# ATGP4005). When cells are added to 1 ug/ml of mouse ALCAM binded to CD6, This effect is more to 50%.

Tag
hIgG-His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

ALCAM (Activated leukocyte cell adhesion molecule), also known as CD166 antigen, is a member of the Ig CAM family within the immunoglobulin superfamily. It interacts with CD6 that promotes T-cell activation and proliferation and plays a role in the binding of T- and B-cells to activated leukocytes. While expressed in a wide variety of tissues, ALCAM is expressed on activated T cells, activated monocytes, epithelial cells, fibroblasts, neurons, melanoma cells, and also in sweat and sebaceous glands. Recently, CD166 is regarded as a potential novel breast cancer indicator and therapeutic target. Recombinant mouse ALCAM, fused to hIgG-His-tag at C-terminus, was expressed in Insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

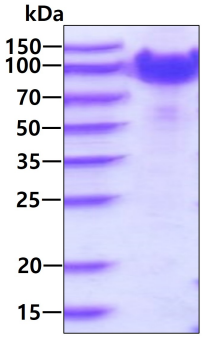
WYTVNSAYGD TIVMPCRLDV PQNLMFGKWK YEKPDGSPVF IAFRSSTKKS VQYDDVPEYK DRLSLSENYT LSIANAKISD EKRFVCMLVT EDNVFEAPTL VKVFKQPSKP EIVNKAPFLE TDQLKKLGDC ISRDSYPDGN ITWYRNGKVL QPVEGEVAIL FKKEIDPGTQ LYTVTSSLEY KTTRSDIQMP FTCSVTYYGP SGQKTIYSEQ EIFDIYYPTE QVTIQVLPPK NAIKEGDNIT LQCLGNGNPP PEEFMFYLPG QPEGIRSSNT YTLTDVRRNA TGDYKCSLID KRNMAASTTI TVHYLDLSLN PSGEVTKQIG DTLPVSCTIS ASRNATVVWM KDNIRLRSSP SFSSLHYQDA GNYVCETALQ EVEGLKKRES LTLIVEGKPQ IKMTKKTDPS GLSKTIICHV EGFPKPAIHW TITGSGSVIN QTEESPYING RYYSKIIISP EENVTLTCTA ENQLERTVNS LNVSAISIPE HDEADDISDE NREKVNDQAK <LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSDGSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTQKSLSLS PGK HHHHHH>

General References

Bowen, M.A. et al. (1995) J. Exp. Med. 181:2213-2220.
Castro, M.A.A. et al. (2007) J. Immunol. 178:4351-4361.
Degen, W.G. et al. (1998) Am. J. Pathol. 152:805-813.
King, J.A. et al. (2010) Mol. Cancer 9:266.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain