

Recombinant human CD6 protein

Catalog Number: ATGP4005

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

18-402aa

UniProt No.

P30203

NCBI Accession No.

NP_006716

Alternative Names

T-cell differentiation antigen CD6, T12, TP120, CD6, CD_antigen, T-cell differentiation antigen CD6 isform1

PRODUCT SPECIFICATION

Molecular Weight

68.3kDa (627aa)

Concentration

0.5mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

90% by SDS - PAGE

Endotoxin level

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

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When cells are added to human CD6 coated plates 10 ug/ml. 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.

BACKGROUND

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Description

CD6, also known as T-cell differentiation antigen CD6, is a member of the group B SRCR (scavenger receptor cysteine-rich) superfamily. CD6 is a cell surface glycoprotein expressed primarily on T cells and It expressed by thymocytes, mature T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain. And T-cell differentiation antigen CD6 appears to play a role as both a co-stimulatory molecule in T cell activation and as an adhesion receptor. CD6 binds to CD166(known as ALCAM), and is considered as a costimulatory molecule involved in lymphocyte activation and thymocyte development.. Certain alleles of this protein may be associated with susceptibility to multiple sclerosis. Recombinant human CD6, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

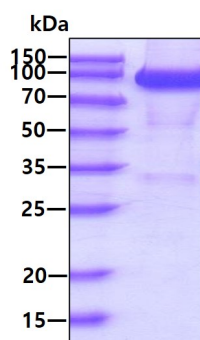
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DGGGACAGRV EMLEHGEWGS VCDDTDWLED AHVVCRLGQC GWAVQALPGL HFTPGRGPIH RDQVNCSGAE
AYLWDCPGLP GQHYCGHKED AGAVCSEHQS WRLTGGADRC EGQVEVHFRG VWNTVCDSEW YPSEAKVLCQ
SLGCGTAVER PKGLPHSLSG RMYYSNGEE LTLNCSWRF NNSNLCSQSL AARVLCASR SLHNLSTPEV PASVQVTIE
SSVTVKIENK ESRELMLL<VE PKSCDKTHTC PPCAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN
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TQKSLSLSPG KHHHHHH>
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General References

Singer, N.G. et al. (1996) Immunology 88:537-547.
 Namir J Hassan et al. (2004) Eur J Immunol. 34:930-940.

DATA

SDS-PAGE



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