

Recombinant human CD5 protein

Catalog Number: ATGP2639

PRODUCT INFORMATION

Expression system

E.coli

Domain

25-372aa

UniProt No.

P06127

NCBI Accession No.

NP_055022

Alternative Names

T-cell surface glycoprotein CD5, LEu1, T1

PRODUCT SPECIFICATION

Molecular Weight

41.0 kDa (371aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

Description

CD5 is a good immunohistochemical marker for T-cells, although not as sensitive as CD3. About 76% of T-cell neoplasms are reported to express CD5, and it is also found in chronic lymphocytic leukemia, hairy cell leukemia, and mantle cell lymphoma cells. It is commonly lost in cutaneous T-cell lymphoma, and its absence can be used as an indicator of malignancy in this condition. The absence of CD5 in T cell acute lymphoblastic leukemia, while relatively rare, is associated with a poor prognosis. Recombinant human CD5 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

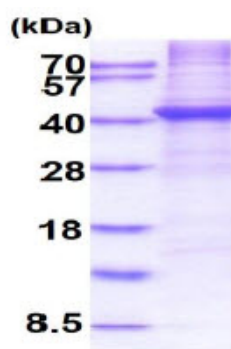
MGSSHHHHHH SSGLVPRGSH MGSRLSWYDP DFQARLTRSN SKCQGQLEVY LKDGWHMVCS QSWGRSSKQW
EDPSQASKVC QRLNCGVPLS LGPFLVTYTP QSSIICYGQL GSFNCSHSR NDMCHSLGLT CLEPQKTTTP TTRPPPTTTP
EPTAPPRLQL VAQSGGQHCA GVVEFYSGSL GGTISYEAQD KTQDLENFLC>NNLQCGSFLK HLPETEAGRA QDPGEPREHQ
PLPIQWKIQN SSCTSLEHCF RKIKPQKSGR VLALLCSGFQ PKVQSRLVGG SSICEGTVEV RQGAQWAALC DSSSARSSLR
WEEVCREQQC GSVNSYRVLD AGDPTSRGLF CPHQKLSQCH ELWERNYSYCK KVFVTCQDPN P

General References

Berland R. et al. (2002) *Annu. Rev. Immunol.* 20:253-300.
Osman N. et al. (1992) *Eur. J. Immunol.* 22:2995-3000.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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