

Recombinant Human CD5, His-tagged

Cat. No. CD5-146H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD5, 25-372aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	25-372aa
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	41.0 kDa (371aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSRLSWYDP DFQARLTRSN SKCQGQLEVY LKDGWWMVCS QSWGRSSKQW EDPSQASKVC QRLNCGVPLS LGPFLVTYTP QSSIICYGQL GSFSNCSHSR NDMCHSLGLT CLEPQKTTTP TTRPPPTTTP EPTAPPRLQL VAQSGGQHCA GVVEFYSGSL GGTISYEAQD KTQDLENFLC

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NNLQCGSFLK HLPETEAGRA QDPGEPREHQ PLPIQWKIQN SSCTSLEHCF
RKIKPQKSGR VLALLCSGFQ PKVQSRLVGG SSICEGTVEV RQGAQWAALC
DSSSARSSLR WEEVCREQQC GSVNSYRVLD AGDPTSRGLF CPHQKLSQCH
ELWERN SYCK KVFVTCQDPN P

Purity >80% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CD5 CD5 molecule [Homo sapiens]

Official Symbol CD5

Synonyms CD5; CD5 molecule; CD5 antigen (p56 62) , LEU1; T-cell surface glycoprotein CD5; T1; CD5 antigen (p56-62); lymphocyte antigen T1/Leu-1; LEU1;

Gene ID 921

mRNA Refseq NM_014207

Protein Refseq NP_055022

MIM 153340

UniProt ID P06127

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Chromosome Location	11q13
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; T Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	glycoprotein binding; protein binding; receptor activity; scavenger receptor activity; transmembrane signaling receptor activity;

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