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CD5, human recombinant protein

T-cell surface glycoprotein CD5, LEU1, T1
Catalog # PBV10939r

Specification

CD5, human recombinant protein - Product info

Primary Accession	P06127
Concentration	1
Calculated MW	41.0 kDa (371 aa, 25-372 aa + His tag), confirmed by MALDI-TOF. KDa

CD5, human recombinant protein - Additional Info

Gene ID	921
Gene Symbol	CD5

Other Names
T-cell surface glycoprotein CD5, LEU1, T1

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥80%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MGSRLSWYDP DFQARLTRSN SKCQGQLEVY LKDGWHMVCS QSWGRSSKQW EDPSQASKVC QRLNCGVPLS LGPFLVTYTP QSSIICYGQL GSFSNCSHSR NDMCHSLGLT CLEPQKTTPP TTRPPPTTTP EPTAPPRLQL VAQSGGQHCA GVVEFYSGSL GGTISYEAQD KTQDLENFLC NNLQCGSFLK HLPETEAGRA QDPGEPREHQ PLPIQWKIQN SSCTSLEHCF RKIKPQKSGR VLALLCSGFQ PKVQSRLVGG SSICEGTVEV RQGAQWAALC DSSSARSSLR WEEVCREQQC GSVNSYRVLD AGDPTSRGLF CPHQKLSQCH ELWERNSYCK KVFVTCQDPN P

Target/Specificity
CD5

Format
Liquid

Storage
-80°C; 1 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 0.4 M Urea and 10% glycerol.

CD5, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD5, human recombinant protein - Images

CD5, human recombinant protein - Background

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.

CD5, human recombinant protein - References

Jones N.H.,et al.Nature 323:346-349(1986).
Calvo J.,et al.Tissue Antigens 47:257-261(1996).
Livingston R.J.,et al.Submitted (OCT-2006) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Taylor T.D.,et al.Nature 440:497-500(2006).