

# PE-Labeled Human CD5 Protein, His Tag (Site-specific conjugation)

Catalog # CD5-HP2H6



BIOSYSTEMS  
**Acro**

## Synonym

CD5, LEU1

## Source

PE-Labeled Human CD5, His Tag (CD5-HP2H6) is produced via site-specific conjugation of PE to Human CD5, His Tag under optimal conditions with a proprietary technology. Human CD5, His Tag is expressed from human 293 cells (HEK293). It contains AA Arg 25 - Pro 372 (Accession # [P06127-1](#)).

Predicted N-terminus: Arg 25

## Molecular Characterization

CD5(Arg 25 - Pro 372) P06127-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 42.2 kDa.

## Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

## Application

Evaluation of anti-CD5 CAR expression by flow cytometry. Please note that this product is NOT compatible to streptavidin detection system.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.5% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please protect from light and avoid repeated freeze-thaw cycles.**

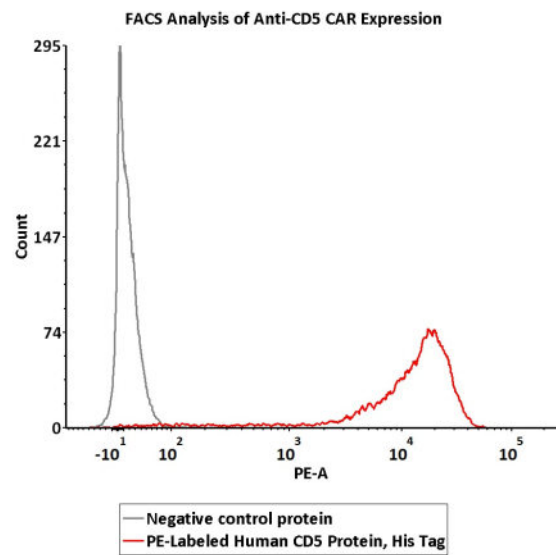
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## Bioactivity-FACS



5e5 of anti-CD5 CAR-293 cells were stained with 100  $\mu$ L of 1:25 dilution (4  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of PE-Labeled Human CD5, His Tag (Cat. No. CD5-HP2H6) and negative control protein respectively. PE signal was used to evaluate the binding activity (QC tested).

## Background

T-cell surface glycoprotein CD5 is also known as Lymphocyte antigen T1/Leu-1 and LEU1, which is phosphorylated on tyrosine residues by LYN, so CD5 can create binding sites for PTPN6/SHP-1. CD5 may act as a receptor in regulating T-cell proliferation. CD5 is expressed at various developmental and activation stages on human B cells. CD5 is a well established negative regulator of TCR and BCR signalling. CD5-positive cells may also prevent the emergence of autoimmunity by provision of cytokines such as IL-10. Development, selection and function of different B- and T-cell subsets or their preferential survival may be directly or indirectly dependent on different glycan structures associated with CD5 or CD5-like molecules.

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