



Synonym

CD5,LEU1

Source

Alexa Fluor 488-Labeled Human CD5 Protein, His Tag (CD5-HA2H6) is produced via conjugation of AF488 to Human CD5 Protein, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human CD5 Protein, 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

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 53.2 kDa.

Conjugate

AF488

Excitation Wavelength: 488 nm

Emission Wavelength: 517 nm

Protein Ratio

The AF488 to protein molar ratio is *0.75-1*.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 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.

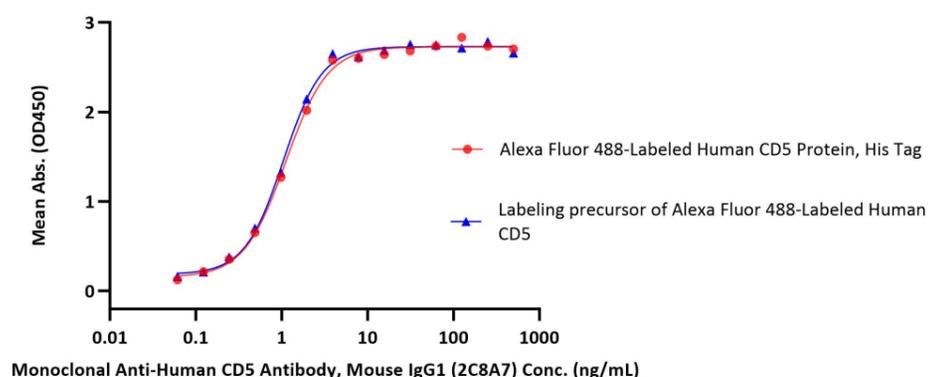
Star Staining fluorescent-labeled products are developed by a new-generation site-specific labeling technology with Star Standard quality at ACROBiosystems

- ★ Using new-generation site-specific labeling technology to maintain natural bioactivity.
- ★ High specificity and sensitivity verified by flow cytometry.
- ★ No non-specific binding to non-transduced PBMCs.
- ★ High homogeneity and high batch-to-batch consistency.

Bioactivity-ELISA

Alexa Fluor 488-Labeled Human CD5 Protein, His Tag ELISA

0.1 µg of Alexa Fluor 488-Labeled Human CD5 Protein, His Tag per well



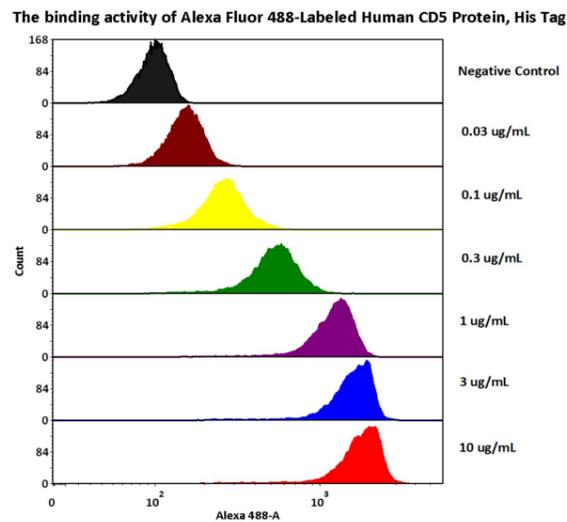
Discounts, Gifts,
and more!





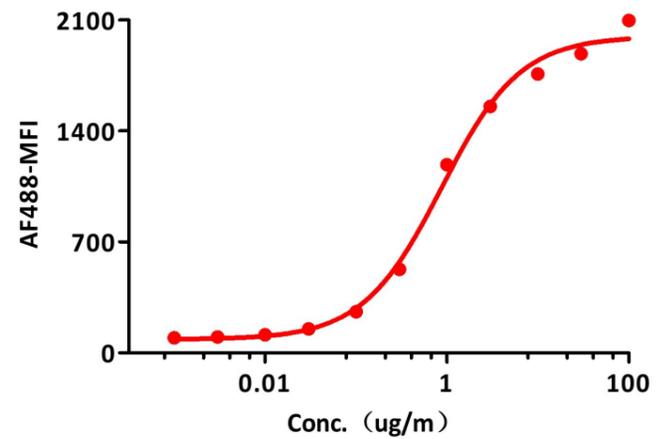
Immobilized Alexa Fluor 488-Labeled Human CD5 Protein, His Tag (Cat. No. CD5-HA2H6) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human CD5 Antibody, Mouse IgG1 (2C8A7) with a linear range of 0.06-2 ng/mL (Routinely tested). Labeling with fluorescent dyes did not affect their activity.

Bioactivity-FACS



1e5 of Mouse Anti-CD5 antibody coupled beads (5.5 µm) were stained with different concentration of Alexa Fluor 488-Labeled Human CD5 Protein, His Tag (Cat. No. CD5-HA2H6) and negative control protein respectively, AF488 signal was used to evaluate the binding activity (QC tested).

Alexa Fluor 488-Labeled Human CD5 Protein, His Tag



1e5 of Mouse Anti-CD5 antibody coupled beads (5.5 µm) were stained with different concentration of Alexa Fluor 488-Labeled Human CD5 Protein, His Tag (Cat. No. CD5-HA2H6) and negative control protein respectively, AF488 signal was used to evaluate the binding activity (QC tested).

Background

CD5 protein is a type-I transmembrane glycoprotein found on the surface of thymocytes, T lymphocytes, and a subset of B lymphocytes. It serves to mitigate activating signals from the BCR, allowing B-1 cells to be activated only by strong stimuli. Additionally, CD5 is involved in regulating lipid synthesis and inflammatory responses.

Discounts, Gifts,
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