



## Synonym

CTLA4,CD152

## Source

PE-Labeled Human CTLA-4 Protein, His Tag(CT4-HP2H3) is expressed from human 293 cells (HEK293). It contains AA Ala 37 - Phe 162 (Accession # [Q6GR94](#)).

## Molecular Characterization

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

## Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2% 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.*

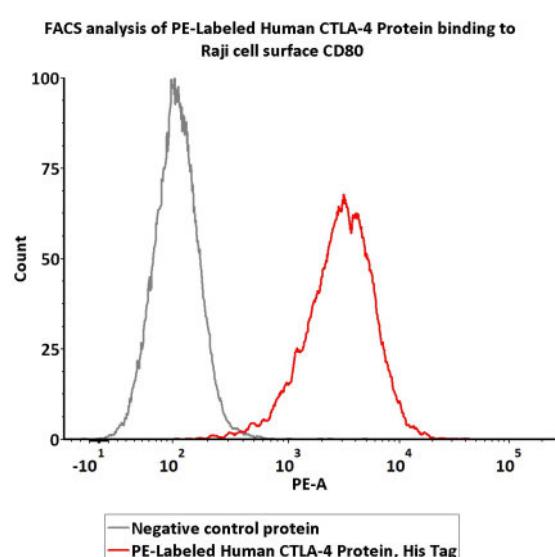
This product is stable after storage at:

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

**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 ★ High specificity and sensitivity verified by flow cytometry to maintain natural bioactivity.
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## Bioactivity-FACS



Flow cytometric analysis of Raji cells staining with PE-Labeled Human CTLA-4 Protein, His Tag (Cat. No. CT4-HP2H3) at 1:50 dilution (2µL of the antibody stock solution corresponds to labeling of 5e5 cells in a final volume

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of 100  $\mu$ L), compared with negative control protein. PE signal was used to evaluate the binding activity (QC tested).

## Background

CTLA-4 (Cytotoxic T-Lymphocyte Antigen 4) is also known as CD152 (Cluster of differentiation 152), is a protein receptor that downregulates the immune system. CTLA4 is a member of the immunoglobulin superfamily, which is expressed on the surface of Helper T cells and transmits an inhibitory signal to T cells. The protein contains an extracellular V domain, a transmembrane domain, and a cytoplasmic tail. Alternate splice variants, encoding different isoforms. CTLA4 is similar to the T-cell co-stimulatory protein, CD28, and both molecules bind to CD80 and CD86, also called B7-1 and B7-2 respectively, on antigen-presenting cells. CTLA4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. Intracellular CTLA4 is also found in regulatory T cells and may be important to their function. Fusion proteins of CTLA4 and antibodies (CTLA4-Ig) have been used in clinical trials for rheumatoid arthritis.

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