

InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

Technical Data Sheet

APC Conjugated Human CTLA4 Protein (C-His)

Catalog Number: 808003, 808004

Size: 25 ug, 100 ug

Target Name: CTLA4, CD152 Regulatory Status: RUO

Product Details

Application: FC
Format: Liquid, APC
Expression Host: CHO

Species: Human

Sources: Recombinant Human CTLA4 Protein (Ala37-Phe162) with C-terminus His-tag is expressed

in CHO cell and conjugated to APC.

Accession Number: P16410

Molecular Weight: The protein has a predicted molecular weight of 15 kDa. Under DTT-reducing

conditions, it migrates at approximately 25 kDa on SDS-PAGE prior to conjugation.

Affinity Tag: C-His

Formulation: 1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein

Endotoxin level: Not tested

Protein Concentration: 25μg size is bottled at 0.1mg/mL concentration. 100 μg size is bottled at lot

specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial may be stored at

2-8°C for up to six months.

Background Information

Cytotoxic T-lymphocyte-associated protein 4 (CTLA-4), also known as CD152, is an immune checkpoint receptor found on T cells. It shares 30% homology with CD28 and binds to the same ligands, B7.1/CD80 and B7.2/CD86, but with higher affinity. After T-cell activation, increased CTLA-4 expression leads to immune suppression by binding to CD80/CD86, inhibiting further T-cell activation through a process called trans-endocytosis.CTLA-4 is crucial for immune regulation and tolerance, especially on regulatory T cells (Tregs). Soluble CTLA-4 (sCTLA-4) further enhances Treg function and is linked to autoimmune diseases like type 1 diabetes. Additionally, CTLA-4 plays a role in chronic lymphocytic leukemia (CLL) progression.Due to its immune-modulatory role, CTLA-4 is targeted in cancer therapy. Ipilimumab, a monoclonal antibody that blocks CTLA-4, is approved for melanoma and is being explored for other cancers.

Product Data



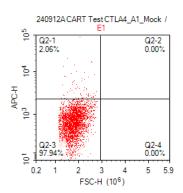
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A: CTLA4 CAR-transfected Stained with APC-CTLA4-His

240912A CART Test CTLA4_B1_CTLA4 /E1 Q2-2 61.63% Q2-3 Q2-3 Q2-3 Q2-3 Q2-4 0.00% PSC-H (10⁶)

B: Mock-transfected Stained with APC-CTLA4-His



CHO cells transfected with either CTLA4 CAR or Mock plasmid were stained with APC conjugated CTLA4 (C-His) protein at 1ug/test