

## APC Human CTLA4 (CD152) Protein (C-Fc)

<b>Catalog Number:</b>	808303, 808304
<b>Size:</b>	25 ug, 100 ug
<b>Target Name:</b>	CTLA4, CD152
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Application:</b>	Flow Cytometry
<b>Format:</b>	Liquid, APC
<b>Expression Host:</b>	CHO
<b>Species:</b>	Human
<b>Sources:</b>	Recombinant Human CTLA4 Protein (Ala37-Phe162) with C-terminus Fc-tag is expressed in CHO cell and conjugated to APC.
<b>Accession Number:</b>	P16410
<b>Molecular Weight:</b>	The protein has a predicted molecular weight of 39.7 kDa. Under DTT-reducing conditions, it migrates at approximately 50 kDa on SDS-PAGE prior to conjugation.
<b>Affinity Tag:</b>	C-Fc
<b>Formulation:</b>	1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein
<b>Endotoxin level:</b>	Not tested
<b>Protein Concentration:</b>	25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.
<b>Storage and Handling:</b>	Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2-8°C for up to six months.

### BACKGROUND INFORMATION

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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-Fc**

240912A CART Test CTLA4\_C3\_CTLA4  
/E1

**B: Mock-transfected  
Stained with APC-CTLA4-Fc**

240912A CART Test CTLA4\_A3\_Mock /  
E1

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

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