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Datasheet for ABIN2180932 CTLA4 Protein (AA 37-160) (Fc Tag)

3 Images

1 Publication



Overview

Quantity:	200 µg
Target:	CTLA4
Protein Characteristics:	AA 37-160
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CTLA4 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 37-160
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus, and has a calculated MW of 40 kDa
	The predicted N-terminus is Ala 37. As a result of glycosylation, the reducing (R) protein
	migrates as 50-55 kDa, and the non-reducing (NR) protein migrates as 100-110 kDa in SDS-
	PAGE.
Purity:	>98 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Target Details	
Target:	CTLA4

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Alternative Name:	CTLA-4 (CTLA4 Products)
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.
Molecular Weight:	39.9 kDa
NCBI Accession:	NP_005205
Pathways:	Cancer Immune Checkpoints
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After
	reconstitution under sterile conditions for 3 months (-70 °C).
Publications	
Product cited in:	Sarkar, Piepenbrink, Basu, Thakar, Keefer, Hessell, Haigwood, Kobie: "IL-33 enhances the
	kinetics and quality of the antibody response to a DNA and protein-based HIV-1 Env vaccine." in
	Vaccine, Vol. 37, Issue 17, pp. 2322-2330, (2019) (PubMed).

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Beduleva, Khramova, Menshikov, Stolyarova, Pavlova: "Combined Action of Anti-CD4 Autoantibodies and Rheumatoid Factor in the Development of CD4 Lymphocytopenia in Rats Immunized with HIV-1 gp120." in: **AIDS research and human retroviruses**, Vol. 32, Issue 12, pp. 1173-1179, (2017) (PubMed).

Rao, Neogi, Eugenin, Prasad: "The gp120 protein is a second determinant of decreased neurovirulence of Indian HIV-1C isolates compared to southern African HIV-1C isolates." in: **PLoS ONE**, Vol. 9, Issue 9, pp. e107074, (2014) (PubMed).

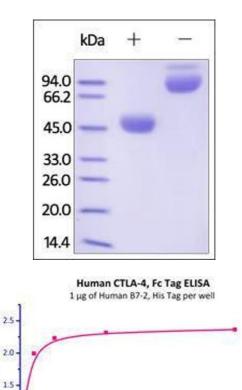
Images

Mean Abs. (OD450)

1.0

0.5

0.0



Human CTLA-4, Fc Tag Con. (µg/mL)

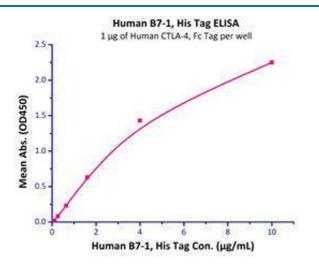
SDS-PAGE

Image 1. Human CTLA-4, Fc Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.

Binding Studies

Image 2. Immobilized Human B7-2, His Tag (Cat# CD6-H5223) at 10 μ g/mL (100 μ I/well), can bind Human CTLA-4, Fc Tag (Cat# CT4-H5255) with a linear range of 0.04-0.3 μ g/mL.

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Binding Studies

Image 3. Immobilized Human CTLA-4, Fc Tag (Cat# CT4-H5255) at 10 μ g/mL (100 μ l/well), can bind Human B7-1, His Tag (Cat# B71-H5228) with a linear range of 0.04-4 μ g/mL.

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