

# Recombinant Mouse Ctla4 Protein, hFc-tagged, Alexa Fluor 488 conjugated

Cat. No. Ctla4-3261MAF488 Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Alexa Fluor 488 conjugated recombinant Mouse Ctla4 (Glu36-Phe162) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).

**Species** Mouse

**Source** HEK293

**ProteinLength** Glu36-Phe162

**Description** 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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<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	The protein has a calculated MW of 40.6 kDa. The protein migrates as 55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>N-terminal Sequence Analysis</b>	Glu 36
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

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**Conjugation** Alexa Fluor 488

## GENE INFORMATION

**Gene Name** [Ctla4](#)

**Official Symbol** [Ctla4](#)

**Synonyms** CTLA4; cytotoxic T-lymphocyte-associated protein 4; cytotoxic T-lymphocyte protein 4; CD152 antigen; cytotoxic T-lymphocyte-associated antigen 4; Cd152; Ly-56; Ctla-4

**Gene ID** [12477](#)

**mRNA Refseq** [NM\\_009843](#)

**Protein Refseq** [NP\\_033973](#)

**UniProt ID** [P09793](#)

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