

Recombinant Rabbit CTLA4 protein, Fc-tagged

Cat. No. CTLA4-372R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rabbit CTLA4 protein (Lys36-Asp161), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Rabbit
Source	HEK293
ProteinLength	126
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.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 40.3 kDa. The protein migrates as 50-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	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 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

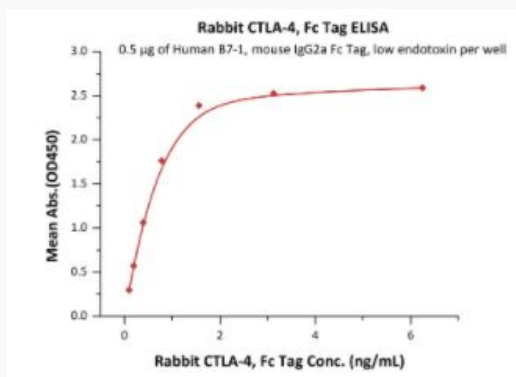
GENE INFORMATION

Gene Name	CTLA4
Official Symbol	CTLA4
Synonyms	CTLA4; cytotoxic T-lymphocyte-associated protein 4; cytotoxic T-lymphocyte protein 4; CTLA-4; cytotoxic T-lymphocyte-associated antigen 4
Gene ID	100009412
mRNA Refseq	NM_001082685
Protein Refseq	NP_001076154

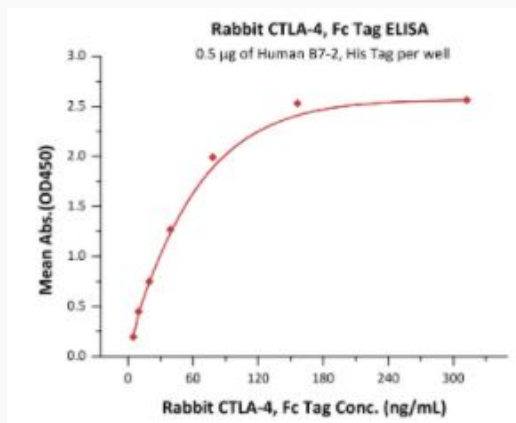
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UniProt ID
P42072
**Bioactivity-ELISA of
CTLA4-372R**


Immobilized Human B7-1, mouse IgG2a Fc Tag, low endotoxin at 5 µg/mL (100 µL/well) can bind Rabbit CTLA-4, Fc Tag with a linear range of 0.1-0.8 ng/mL (QC tested).

**Bioactivity-ELISA of
CTLA4-372R**


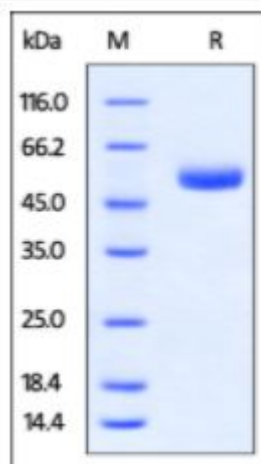
Immobilized Human B7-2, His Tag at 5 µg/mL (100 µL/well) can bind Rabbit CTLA-4, Fc Tag with a linear range of 5-78 ng/mL (Routinely tested).

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**SDS-PAGE of
CTLA4-372R**



Rabbit CTLA-4, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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