

Recombinant Mouse CTLA-4/CD152 Protein

Catalog No.: RP01326

Sequence Information

Species **Gene ID**
Mouse 12477

Swiss Prot **Tags**
P09793 C-His

Synonyms
Cd152, Ctlα-4, Ly-56, CTLA4

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
14.70 kDa 20–35 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

Cytotoxic T-lymphocyte protein 4, also known as CTLA4 and CD152, is a single-pass type I membrane protein and a member of the immunoglobulin superfamily. It is the second member of the CD28 receptor family, and is similar to the T-cell co-stimulatory protein, CD28, 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. CD152 or cytotoxic T lymphocyte antigen-4 (CTLA-4) is an essential receptor involved in the negative regulation of T cell activation. Because of its profound inhibitory role, CD152 has been considered a sound susceptible candidate in autoimmunity and a persuasive target for cancer immunotherapy.

Basic Information

Description

Recombinant Mouse CTLA-4/CD152 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu36–Asp161) of Mouse CTLA4 (Accession #NP_033973.2) fused with an 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse CTLA-4/CD152 at 2 μg/mL (100 μL/well) can bind Mouse B7-2/CD86 with a linear range of 0.1–51.8 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

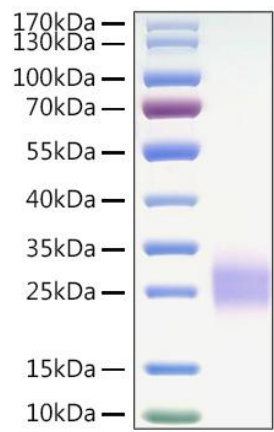
Contact

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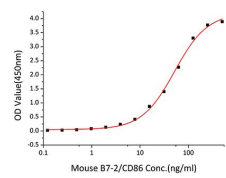
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



Recombinant Mouse CTLA-4/CD152 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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