

# Recombinant Mouse B7-H3/CD276 Protein

Catalog No.: RP01682 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	102657	Q8VE98

### Tags

C-6His

### Synonyms

B7h3; B7RP-2; 6030411F23Rik□CD276

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
24.33 kDa	35-45 kDa

### Endotoxin

<0.1EU/μg

### 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.

## Contact

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## Background

B7-H3 is a member of the B7 family of immune regulatory ligands that is thought to attenuate peripheral immune responses through co-inhibition. It plays an important role in adaptive immune responses, and was shown to either promote or inhibit T-cell responses in various experimental systems. B7-H3 may play an important role in muscle-immune interactions, providing further evidence of the active role of muscle cells in local immunoregulatory processes. B7-H3 is a novel protein structurally related to the B7 family of ligands by the presence of a single set of immunoglobulin-V-like and immunoglobulin-C-like (VC) domains. Previous studies have correlated its overexpression with poor prognosis and decreased tumor-infiltrating lymphocytes in various carcinomas including uterine endometrioid carcinomas, and mounting evidence supports an immuno-inhibitory role in ovarian cancer prognosis. Recently, B7-H3 expression has been reported in several human cancers indicating an additional function of B7-H3 as a regulator of antitumor immunity.

## Basic Information

### Description

Recombinant Mouse B7-H3/CD276 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val 29 - Phe 244) of mouse CD276 (Accession #NP\_598744.1) fused with and a 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse CD276 (Catalog: RP01682) at 2 μg/mL (100 μL/well) can bind CD276 Rabbit pAb (Catalog: A21663) with a linear range of 1-274 ng/mL.

### Storage

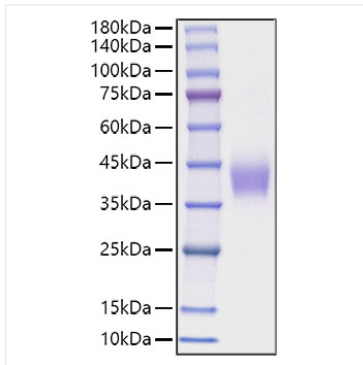
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

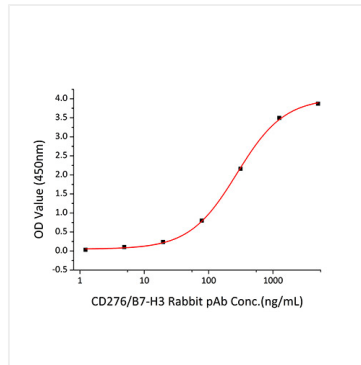
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse CD276 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-45 kDa.



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