

RP00680

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# Recombinant Human B7-1/CD80 Protein

Catalog No.: RP00680

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Human	941	P33681

### Tags

C-6×His

### Synonyms

B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB 7;CD80

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in 1X PBS.

## Background

Cluster of Differentiation 80, also called B7-1, is a member of cell surface immunoglobulin superfamily which plays key, yet distinct roles in the activation of T cells. It is the ligand for two different proteins on the T cell surface: CD28 and CTLA-4. Studies have shown that CTLA-4 binds mostly to CD80. The structure presents two extracellular domains: a membrane distal variable-like domain (IgV) and a membrane proximal Ig constant-like domain (IgC) along with an intracellular domain. Both IgV and IgC consist of anti-parallel beta sandwiches joined by a short linker region. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells.

## Basic Information

### Description

Recombinant Human B7-1/CD80 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Val35-Asn242) of human B7-1/CD80 (Accession #P33681) fused with a 6×His tag at the C-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term. 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.

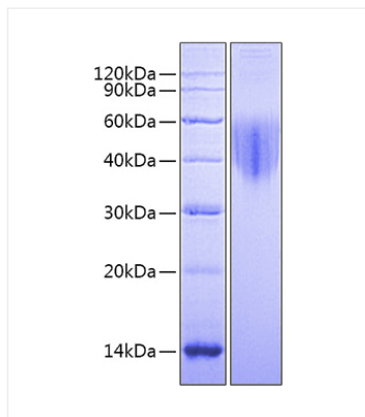
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Human B7-1/CD80 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.