

RP00739

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# Recombinant Cynomolgus B7-1/CD80 Protein

Catalog No.: RP00739 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	732518	G7MKE2

**Tags**  
C-6×His

**Synonyms**  
T-lymphocyte activation antigen CD80;  
Activation B7-1 antigen; B7; 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, pH7.4. Contact us for customized product form or formulation.

**Reconstitution**  
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## Background

Cynomologous Cluster of Differentiation 80, also called B7-1, is a member of cell surface immunoglobulin superfamily. It is expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. CD80 plays key, yet distinct roles in the activation of T cells. B7-1/CD80 and B7-2/CD86, together with their receptors CD28 and CTLA4, constitute one of the dominant co-stimulatory pathways that regulate T- and B- cell responses. CD80 is mostly expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. Although both CTLA-4 and CD28 can bind to the same ligands, CTLA-4 binds to B7-1 and B7-2 with a 20-100 fold higher affinity than CD28 and is involved in the down-regulation of the immune response. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.

## Basic Information

**Description**  
Recombinant Cynomolgus B7-1/CD80 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Val35-Asn242) of cynomolgus B7-1/CD80 (Accession #G7MKE2) fused with a 6×His tag at the C-terminus.

### Bio-Activity

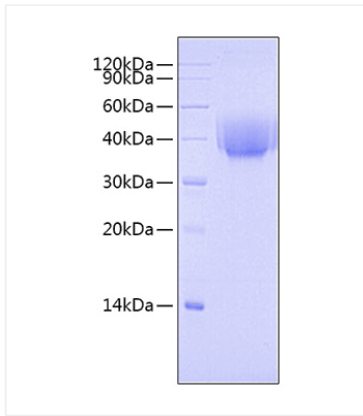
**Storage**  
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Contact

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

## Validation Data

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