Datasheet for ABIN2870717

# CD86 Protein (CD86) (AA 24-245) (Fc Tag)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | CD86 |
| Protein Characteristics: | AA 24-245 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This CD86 protein is labelled with Fc Tag. |

## Product Details

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| Sequence: | AA 24-245 |
| Characteristics: | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 52 kDa. The protein migrates as 66-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity: | >95 % as determined by SDS-PAGE. |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

## Target Details

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| Target: | CD86 |
| Alternative Name: | B7-2 (CD86 Products) |

 

## Target Details

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| Background: | Cluster of Differentiation 86 (CD86) is also known as B-lymphocyte activation antigen B7-2, is a type I membrane protein that is a member of the immunoglobulin superfamily, and is constitutively expressed on interdigitating dendritic cells, Langerhans cells, peripheral blood dendritic cells, memory B cells, and germinal center B cells. Additionally, B72 is expressed at low levels on monocytes and can be upregulated through interferon γ. CD86 is the ligand for two different proteins on the T cell surface: CD28 (for autoregulation and intercellular association) and CTLA-4 (for attenuation of regulation and cellular disassociation). CD86 works in tandem with CD80 to prime T cells. Recent study has revealed that B7-2 promotes the generation of a mature APC repertoire and promotes APC function and survival. Furthermore, the B7 proteins are also involved in innate immune responses by activating NF-κB-signaling pathway in macrophages. CD86 thus is regarded as a promising candidate for immune therapy. CD86+ macrophages in Hodgkin lymphoma patients are an independent marker for potential nonresponse to firstline-therapy. |
| Molecular Weight: | 51.9 kDa |
| NCBI Accession: | NP_062261 |
| Pathways: | TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, Activated T Cell Proliferation |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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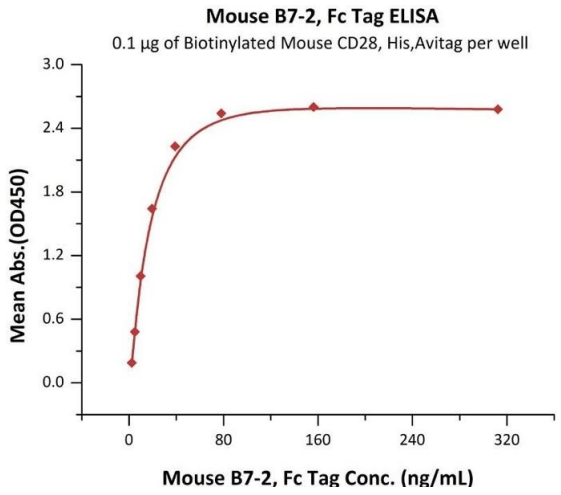
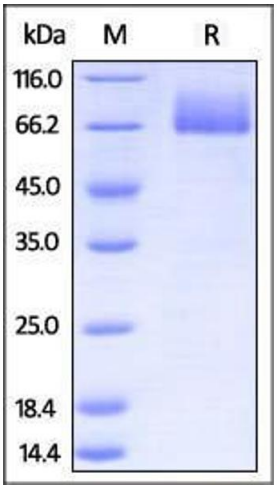
| Format: | Lyophilized |
| Buffer: | Tris with Glycine, Arginine and NaCl, pH 7.5 |
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |



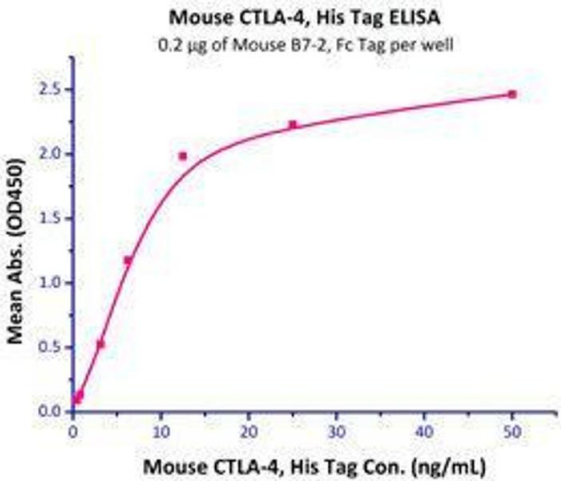

## ELISA

**Image 1.** Immobilized Biotinylated Mouse CD28, His,Avitag (ABIN6972980) at 1 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Mouse B7-2, Fc Tag (ABIN2870716,ABIN2870717) with a linear range of 2-39 ng/mL (Routinely tested).




## SDS-PAGE

**Image 2.** Mouse B7-2, 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%.




## Binding Studies

**Image 3.** Immobilized Mouse B7-2, Fc Tag (Cat# CD6-M5251) at 5 µg/mL (100 µl/well),can bind Mouse CTLA-4, His Tag (Cat# CT4-M52H5) with a linear range of 0.8-12.5 ng/mL.