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Datasheet for ABIN2180621

## CD86 Protein (CD86) (AA 26-247) (Fc Tag)

3 Images

1 Publication

### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 200 µg                                     |
| Target:                       | CD86                                       |
| Protein Characteristics:      | AA 26-247                                  |
| Origin:                       | Human                                      |
| Source:                       | HEK-293 Cells                              |
| Protein Type:                 | Recombinant                                |
| Biological Activity:          | Active                                     |
| Purification tag / Conjugate: | This CD86 protein is labelled with Fc Tag. |

### Product Details

|                  |   |
|------------------|---|
| Sequence:        | AA 26-247   |
| Characteristics: | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 51.5 kDa. As a result of glycosylation, the protein migrates as 66-100 kDa under reducing (R) condition, and 120-140 kDa under non-reducing (NR) condition (SDS-PAGE). |
| Purity:          | >95 % as determined by SDS-PAGE.  |
| Sterility:       | 0.22 µm filtered  |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method.  |

### Target Details

|         |      |
|---------|------|
| Target: | CD86 |
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## Target Details

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Alternative Name: B7-2 ([CD86 Products](#))

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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  $\gamma$ . 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- $\kappa$ B-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.

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Molecular Weight: 51.5 kDa

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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](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

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Handling Advice: Please avoid repeated freeze-thaw cycles.

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Storage: -20 °C

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Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

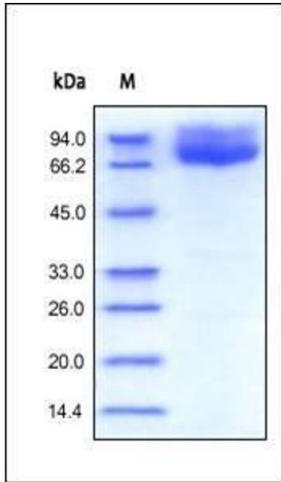
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## Publications

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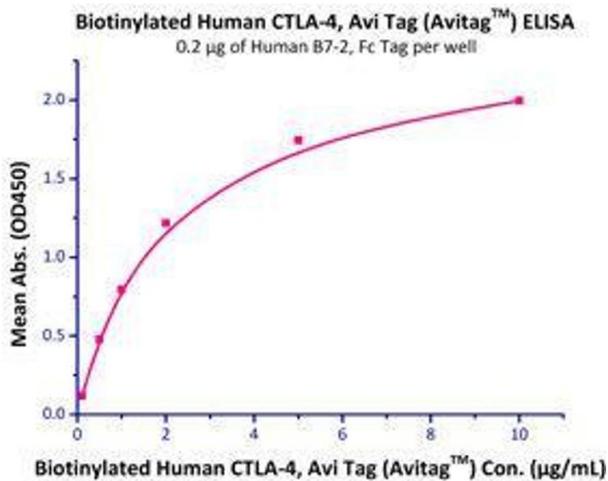
Product cited in: Gmyrek, Pingel, Choi, Green: "Functional analysis of acquired CD28 mutations identified in

Images



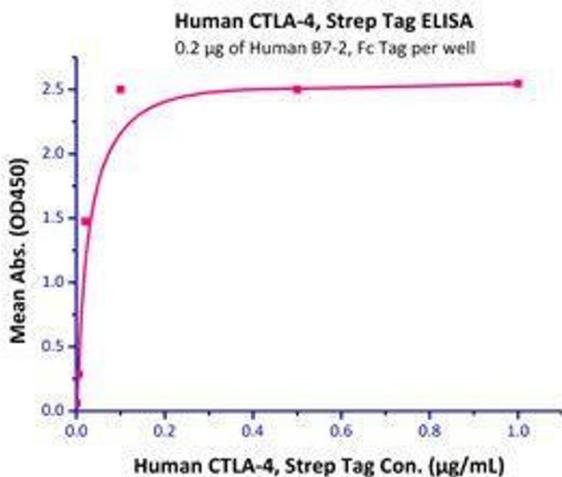
**SDS-PAGE**

**Image 1.** Human B7-2, Fc Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



**Binding Studies**

**Image 2.** Immobilized Human B7-2, Fc Tag with a linear range of 0.1 - 1 µg/mL.



**Binding Studies**

**Image 3.** Immobilized Human B7-2, Fc Tag with a linear range of 1-20 ng/mL.