

## CD86 active protein

CD86 Protein, Mouse, Recombinant (His Tag)

CATALOG #  
**AAA258125**

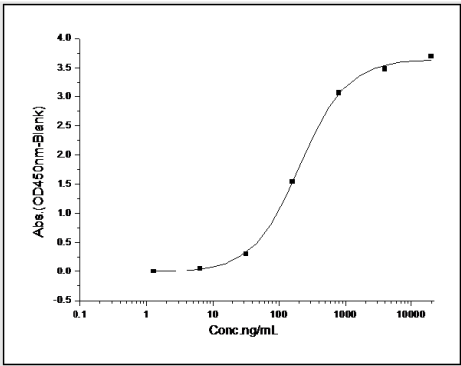
HOST  
**HEK293 Cells**

### PRODUCT SYNONYMS

CD86; CD86 Protein; Mouse; Recombinant (His Tag); Mouse CD86/B7-2 Protein (His Tag); B7 Protein; B7-2 Protein; B7.2 Protein; B70 Protein; Cd28l2 Protein; CLS1 Protein; ETC-1 Protein; Ly-58 Protein; Ly58 Protein; MB7 Protein; MB7-2 Protein; TS/A-2 Protein; CD86 antigen; CD86 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification     | >92% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format             | Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.                                                                                                                                                                                                                                                                                               |
| Sequence                | Met1-Glu24 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Species                 | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Activity                | Measured by its binding ability in a functional ELISA. Immobilized mouse CD86 at 20ug/ml (100uL/well) can bind mouse CD28 with a linear range of 6.4-800ng/mL.                                                                                                                                                                                                                                                                                                                                                   |
| Endotoxin               | <1.0EU per ug of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Predicted N Terminal    | Val 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tag                     | C-His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Protein Construction    | A DNA sequence encoding the extracellular domain (Met 1-Glu 245) of mouse CD86 (NP_062261.3) precursor was fused with a polyhistidine tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                     |
| Reconstitution          | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage | <p>Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <p>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.</p> |



SDS-PAGE

**Application Data**  
Measured by its binding ability in a functional ELISA. Immobilized mouse CD86 at 20 ug/ml (100 ul/well) can bind mouse CD28 with a linear ranger of 6.4-800 ng/ml.

ADDITIONAL INFORMATION

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|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CD86 active protein | Background: CD86, also known as B-lymphocyte activation antigen B7-2 (referred to as B70), is a member of the cell surface immunoglobulin superfamily. B7-2 exists predominantly as a monomer on cell surfaces and interacts with two co-stimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells, and thus induces the signal pathways which regulate T cell activation and tolerance, cytokine production, and the generation of CTL. It is indicated that contacts between B and T helper cells mediated by CD86 encourage signals for the proliferation and IgG secretion of normal B cells and B cell lymphomas. A recent study has revealed that CD86 also promotes the generation of a mature APC repertoire and promotes APC function and survival. CD86 has an important role in chronic hemodialysis, allergic pulmonary inflammation, arthritis, and antiviral responses, and thus is regarded as a promising candidate for immune therapy. |
| Product Categories/Family for CD86 active protein   | Cancer Drug Targets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| References                                          | Chen YQ, et al. (2006) CD28/CTLA-4--CD80/CD86 and ICOS--B7RP-1 costimulatory pathway in bronchial asthma. Allergy. 61(1): 15-26.Rau FC, et al. (2009) B7-1/2 (CD80/CD86) direct signaling to B cells enhances IgG secretion. J Immunol. 183(12): 7661-71.Dai ZS, et al. (2009) Defective expression and modulation of B7-2/CD86 on B cells in B cell chronic lymphocytic leukemia. Int J Hematol. 89(5): 656-63.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| NCBI GI #                        | 161484599                                                                 |
| NCBI GeneID                      | 12524                                                                     |
| NCBI Accession #                 | NP_062261.3                                                               |
| NCBI GenBank Nucleotide #        | NM_019388.3                                                               |
| UniProt Accession #              | P42082                                                                    |
| Molecular Weight                 | 33,962 Da                                                                 |
| NCBI Official Full Name          | T-lymphocyte activation antigen CD86                                      |
| NCBI Official Synonym Full Names | CD86 antigen                                                              |
| NCBI Official Symbol             | Cd86                                                                      |
| NCBI Official Synonym Symbols    | B7; B70; MB7; B7-2; B7.2; CLS1; Ly58; ETC-1; Ly-58; MB7-2; Cd28l2; TS/A-2 |
| NCBI Protein Information         | T-lymphocyte activation antigen CD86                                      |
| UniProt Protein Name             | T-lymphocyte activation antigen CD86                                      |
| UniProt Gene Name                | CD86                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/cd86/258125>