

# Product Information

## MemDX™ Antibody Discovery - Human B7-2 / CD86 (26-247) Membrane Protein, Partial, -His tag

Cat. No.: **MP1026F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human B7-2 / CD86 (26-247). It has been tested in SDS-PAGE, ELISA, BLI. We provide this protein to facilitate your membrane protein antibody discovery and development.

### Product Specifications

#### Host Species

Human

#### Target Protein

B7-2 / CD86

#### Protein Length

ECD

#### Molecular Weight

The protein has a calculated MW of 26.2 kDa. The protein migrates as 42-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### Sequence

AA Leu 26 - Pro 247 (Accession # AAH40261).

### Product Description

#### Activity

Yes

#### Application

SDS-PAGE, ELISA, BLI

#### Expression Systems

HEK293

#### Tag

His tag at the C-terminus

#### Protein Format

Soluble

#### Form

LYOPH

### Reconstitution

Please see Certificate of Analysis for specific instructions.

### Endotoxin

<1.0 EU/μg by the LAL method

### Purity

>95% as determined by SDS-PAGE.

### Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

### Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

## Target

### Target Protein

B7-2 / CD86

### Full Name

CD86 molecule

### Introduction

This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in several transcript variants encoding different isoforms.

### Alternative Names

B70; B7-2; B7.2; LAB72; CD28LG2; T-lymphocyte activation antigen CD86; B-lymphocyte activation antigen B7-2; BU63; CD86 antigen (CD28 antigen ligand 2, B7-2 antigen); CTLA-4 counter-receptor B7.2; FUN-1

### Gene ID

[942](#)

### UniProt ID

[P42081](#)