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# Product Information

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

Cat. No.: **MP1020F**
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. 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 28.0 kDa. The protein migrates as 45-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Sequence**
AA Leu 26 - Pro 247 (Accession # AAH40261.1).

## Product Description

**Activity**
Yes

**Application**
SDS-PAGE, ELISA

**Expression Systems**
HEK293

**Tag**
Avi tag at the C-terminus, followed by a His tag.

**Protein Format**
Soluble

**Form**


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LYOPH

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

**Endotoxin**

<1.0 EU/μg by the LAL method

**Conjugation**

Biotin

**Purity**

>90% 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 coditions 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


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