

## Product Information

### **MemDX™ Antibody Discovery - Rhesus macaque CD4 (26-390) Membrane Protein, Partial, - hIgG1 Fc tag**

Cat. No.: **MP1263F**

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

This membrane protein is Rhesus macaque CD4 (26-390). 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

Rhesus macaque

##### Target Protein

CD4

##### Protein Length

ECD

##### Molecular Weight

The protein has a calculated MW of 67.0 kDa. The protein migrates as 67-85 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

##### Sequence

AA Lys 26 - Trp 390 (Accession # G7N5T8).

#### Product Description

##### Activity

Yes

##### Application

SDS-PAGE, ELISA

##### Expression Systems

HEK293

##### Tag

Human IgG1 Fc 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 Tris with Glycine, Arginine and NaCl, pH7.5. 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

CD4

### Full Name

CD4 molecule

### Introduction

This gene encodes the CD4 membrane glycoprotein of T lymphocytes. The CD4 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class II MHC molecules. The CD4 antigen is also a primary receptor for entry of the human immunodeficiency virus through interactions with the HIV Env gp120 subunit. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, granulocytes, as well as in various regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene.

### Alternative Names

T-cell surface glycoprotein CD4, CD4 antigen, T-cell surface antigen T4/Leu-3

### Gene ID

[713807](#)

### UniProt ID

[P16003](#)