

# Product Information

## **MemDX™ Antibody Discovery - Cynomolgus CD3 (22-117) Membrane Protein, Partial, - hIgG1 Fc -His tag**

Cat. No.: **MP1126F**

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

This membrane protein is Cynomolgus CD3 (22-117). 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**

Cynomolgus

#### **Target Protein**

CD3

#### **Protein Length**

ECD

#### **Molecular Weight**

The protein has a calculated MW of 38.3 kDa. The protein migrates as 43-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### **Sequence**

AA Gln 22 - Asp 117 (Accession # Q95LI5).

### Product Description

#### **Activity**

Yes

#### **Application**

SDS-PAGE, ELISA

#### **Expression Systems**

HEK293

#### **Tag**

Human IgG1 Fc tag at the C-terminus, followed by a His tag

#### **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

CD3

### Full Name

CD3e molecule

### Introduction

The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.

### Alternative Names

T-cell surface glycoprotein CD3 epsilon chain, CD3-epsilon, CD3e antigen, epsilon polypeptide (TiT3 complex), CD3e molecule, epsilon (CD3-TCR complex), T-cell antigen receptor complex, epsilon subunit of T3, T-cell surface antigen T3/Leu-4 epsilon chain

### Gene ID

[102133065](#)

### UniProt ID

[Q95LI5](#)