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Product Information

MemDX™ Antibody Discovery - Rhesus macaque CD4 (26-390) Membrane Protein, Partial, - His tag

Cat. No.: **MP1264F**
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 42.3 kDa. The protein migrates as 50-57 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
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 coditions 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

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