

Product Information

MemDX™ Membrane Protein Human CD4 (CD4 molecule) Expressed *in vitro* *E.coli* expression system, Full Length of Mature Protein

Cat. No.: **MPX3903K**

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

This product is a Human CD4 membrane protein expressed *in vitro* *E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CD4

Protein Length

Full Length of Mature Protein

Protein Class

Receptor

TMD

1

Sequence

KKVVLGKKGDTVELTCTASQKKSIQFHWKNSNQIKILGNQGSFLTKGPSKLNDRADSRRLWDQGNFPLIKNLKIEDSDTYICEVED

Product Description

Expression Systems

in vitro *E.coli* expression system

Tag

6xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

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

CD4; IMD79; OKT4D; CD4mut; T-cell surface glycoprotein CD4; CD4 antigen (p55); CD4 receptor; T-cell surface antigen T4/Leu-3; CD4 molecule

Gene ID

[920](#)

UniProt ID

[P01730](#)