

Product Information

MemDX™ Membrane Protein Human CD1D (CD1d molecule) Expressed *in vitro* E.coli expression system, Full Length of Mature Protein

Cat. No.: **MPX3821K**

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

This product is a Human CD1D 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

CD1D

Protein Length

Full Length of Mature Protein

Protein Class

Immunity

TMD

1

Sequence

EVPQRLFPRLCLQISSFANSSWTRTDGLAWLGELQTHSWSNDSDTVRSCLKPWSQGTFSQQWETLQHIFRVYRSSFTRDVKEFAK

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis and SUMO tag

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

CD1D

Full Name

CD1d molecule

Introduction

This gene encodes a divergent member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail. Two transcript variants encoding different isoforms have been found for this gene.

Alternative Names

CD1D; R3; CD1A; R3G1; antigen-presenting glycoprotein CD1d; CD1D antigen, d polypeptide; HMC class I antigen-like glycoprotein CD1D; T-cell surface glycoprotein CD1d; differentiation antigen CD1-alpha-3; thymocyte antigen CD1D; CD1d molecule

Gene ID

[912](#)

UniProt ID

[P15813](#)