

Product Information

MemDX™ Membrane Protein Human MR1 (Major histocompatibility complex, class I-related)

Full Length

Cat. No.: **MPC4191K**

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

This product is a made-to-order Human MR1 membrane protein expressed in HEK293. 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

MR1

Protein Length

Full length

Protein Class

Immunity

TMD

1

Sequence

MGELMAFLLPLIIVLMVKHSDSRTHSLRYFRLGVSDPIHGVPEFISVGYV
DSHPITTYDSVTRQKEPRAPWMAENLAPDHWERYTQLLRGWQQMFKVELK
RLQRHYNHSGSHTYQRMIGCELLEDGSTTGFLQYAYDGGQDFLIFNKDTLS
WLAVDNVAHTIKQAWEANQHHELLYQKNWLEEECIAWLKRFLEYGKDTLQR
TEPPLVRVNRKETFPGVTFALFCKAHGFYPPEIYMTWMKNGEEIVQEIDYG
DILPSGDGTQAWASIELDPQSSNLYSCHVEHCGVHMLQVPQESETIPL
VMKAVSGSIVLVIVLAGVGVLVWRRRPREQNGAIYLPDPDR

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

MR1

Full Name

Major histocompatibility complex, class I-related

Introduction

MAIT (mucosal-associated invariant T-cells) lymphocytes represent a small population of T-cells primarily found in the gut. The protein encoded by this gene is an antigen-presenting molecule that presents metabolites of microbial vitamin B to MAITs. This presentation may activate the MAITs to regulate the amounts of specific types of bacteria in the gut. Several transcript variants encoding different isoforms have been found for this gene, and a pseudogene of it has been detected about 36 kbp upstream on the same chromosome.

Alternative Names

MR1; HLALS; MHC class I-like antigen MR-1; MHC class-I related-gene protein; major histocompatibility complex, class I-like sequence; major histocompatibility complex class I-related gene protein; Major histocompatibility complex, class I-related

Gene ID

[3140](#)

UniProt ID

[Q95460](#)