Recombinant Human MR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MR1-4423H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MR1 MS Standard C13 and N15-labeled recombinant protein (NP_001522) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	39.2 kDa
AA Sequence	MGELMAFLLPLIIVLMVKHSDSRTHSLRYFRLGVSDPIRGVPEFISVGYVDSHPITTYD SVTRQKEPRAPWMAENLAPDHWERYTQLLRGWQQMFKVELKRLQRHYNHSGSHT YQRMIGCELLEDGSTTGFLQYAYDGQDFLIFNKDTLSWLAVDNVAHTIKQAWEANQ HELLYQKNWLEEECIAWLKRFLEYGKDTLQRTEPPLVRVNRKETFPGVTALFCKAH GFYPPEIYMTWMKNGEEIVQEIDYGDILPSGDGTYQAWASIELDPQSSNLYSCHVEH CGVHMVLQVPQESETIPLVMKAVSGSIVLVIVLAGVGVLVWRRRPREQNGAIYLPTP

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	DRTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MR1 major histocompatibility complex, class I-related [Homo sapiens (human)]
Official Symbol	MR1
Synonyms	MR1; major histocompatibility complex, class I-related; HLALS, major histocompatibility complex, class I like sequence; major histocompatibility complex class I-related gene protein; MHC class I-like antigen MR-1; MHC class I-related gene protein; MHC class-I related-gene protein; class I histocompatibility antigen-like protein; major histocompatibility complex, class I-like sequence; HLALS; FLJ31593;
Gene ID	3140
mRNA Refseq	NM_001531
Protein Refseq	NP_001522

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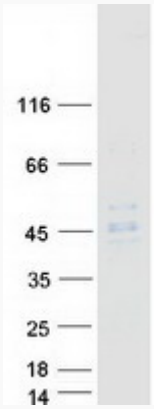
MIM	600764
UniProt ID	Q95460
SDS-PAGE	

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