MR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MR1, Polyclonal Antibody
Full Product Name	MR1 Antibody, HRP conjugated
Product Gene Name	anti-MR1 antibody
Product Synonym Names	Major histocompatibility complex class I-related gene proteinMHC class I-related gene protein; Class I histocompatibility antigen-like protein; MR1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: MR1 (MBS7044784) HRP Conjugated Antibody: MR1 (MBS7045261)
Molecular Weight	25,190 Da
OMIM	600764
3D Structure	ModBase 3D Structure for Q95460
Species	Human
Immunogen	Recombinant human Major histocompatibility complex class I-related gene protein
Conjugate	HRP
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-292077
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MR1 antibody	ELISA (EIA)
Related Product Information for anti-MR1 antibody	Antigen-presenting molecule specialized in presenting microbial vitamin B metabolites. Involved in the development and expansion of a small population of T-cells expressing an invariant T-cell receptor alpha chain called mucosal-associated invariant T-cells (MAIT). MAIT lymphocytes are preferentially located in the gut lamina propria and therefore may be involved in monitoring commensal flora or serve as a distress signal. Expression and MAIT cell recognition seem to be ligand-dependent.
Other Notes	Small volumes of anti-MR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MR1 purchase	MBS7045261 is an antibody targeting MR1. Also known as MR1 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MR1. It may not necessarily be applicable to this product.

NCBI GI #	303324539
NCBI GeneID	3140
NCBI Accession #	NP_001181928.1
UniProt Primary Accession #	Q95460
UniProt Secondary Accession #	O97985; O97986; Q53GM1; Q95HB8; Q9MY23; Q9NPL2; Q9TQB3; Q9TQB9; Q9TQK3; A8K2V9; B4E3B1
UniProt Related Accession #	Q95460
GenBank Nucleotide #	NM_001194999.1
NCBI Official Full Name	major histocompatibility complex class I-related gene protein isoform 2
NCBI Official Synonym Full Names	major histocompatibility complex, class I-related
NCBI Official Symbol	MR1
NCBI Official Synonym Symbols	HLALS
UniProt Protein Name	Major histocompatibility complex class I-related gene protein
UniProt Synonym Protein Names	Class I histocompatibility antigen-like protein
Protein Family	Major histocompatibility complex class I-related gene protein
UniProt Gene Name	MR1
UniProt Synonym Gene Names	MHC class I-related gene protein
UniProt Entry Name	HMR1_HUMAN
NCBI Protein Information	major histocompatibility complex class I-related gene protein
NCBI Summary for MR1	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. [provided by RefSeq, Jul 2015]
UniProt Comments for MR1	MR1: Has antigen presentation function. Involved in the development and expansion of a small population of T-cells expressing an invariant T-cell receptor alpha chain called mucosal-associated invariant T-cells (MAIT). MAIT cells are preferentially located in the gut lamina propria and therefore may be involved in monitoring commensal flora or serve as a distress signal. Expression and MAIT cell recognition seem to be ligand- dependent. Belongs to the MHC class I family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 1q25.3 Cellular Component: endoplasmic reticulum; plasma membrane Molecular Function: antigen binding; MHC class I receptor activity; protein binding Biological Process: antigen processing and presentation; immune response
Research Articles on MR1	**1.** endosome-mediated trafficking of MR1 allows for selective sampling of the intracellular environment
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