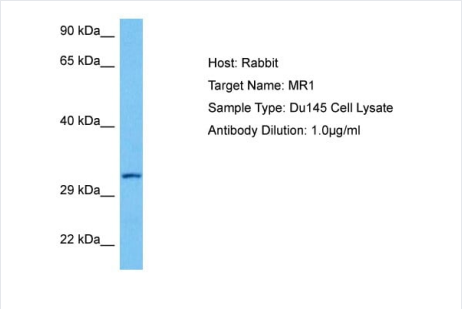
MR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MR1, Polyclonal Antibody
Full Product Name	MR1 Antibody - N-terminal region
Product Gene Name	anti-MR1 antibody
Product Synonym Gene Name	HLALS
Immunogen Sequence	Synthetic peptide located within the following region: PEFISVGYVD SHPITTYDSV TRQKEPRAPW MAENLAPDHW ERYTQLLRGW
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	MR1 peptide (MBS3247015) is used for blocking the activity of MR1 antibody (MBS3222343)
Molecular Weight	32 kDa
OMIM	600764
3D Structure	ModBase 3D Structure for Q95460
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of Human MR1
Product Categories/Family for anti-MR1 antibody	Polyclonal; Lymphocyte Signaling; Immunology; Tissue Specific & Cell Marker
Applications Tested/Suitable for anti-MR1 antibody	Western Blot (WB)
Related Product Information for anti-MR1 antibody	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.
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	MBS3222343 is an antibody targeting MR1. Also known as MR1 Antibody - N-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MR1 antibody
Host: RabbitTarget Name: MR1Sample Tissue: Human Du145 Whole Cell lysatesAntibody Dilution: 1ug/ml

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 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

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 membrane; endoplasmic reticulum; extracellular region; integral to membrane; plasma membrane; MHC class I protein complex Molecular Function: MHC class I receptor activity; peptide antigen binding; antigen binding Biological Process: antigen processing and presentation; antigen processing and presentation of peptide antigen via MHC class I; positive regulation of T cell mediated cytotoxicity; interleukin-17 production; interleukin-1 beta production; innate immune response; immune response; cytokine production during immune response; signal transduction; defense response to Gram-negative bacterium
Research Articles on MR1	**1.** Human mucosal-associated invariant T cells possess capacity for B cell help via MR1-mediated immunoglobulins production.
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