abcam

Product datasheet

Recombinant Human MR1 protein ab158661

1 Image

Description

Product name	Recombinant Human MR1 protein
Expression system	Wheat germ
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	TEPPLVRVNRKETFPGVTALFCKAHGFYPPEIYMTWMKNG EEIVQEIDYG DILPSGDGTYQAWASIELDPQSSNLYSCHVEHCGVHMVL QVPQESETIPL
Amino acids	201 to 300
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab158661** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA
Form	Liquid
Additional notes	

Preparation and Storage

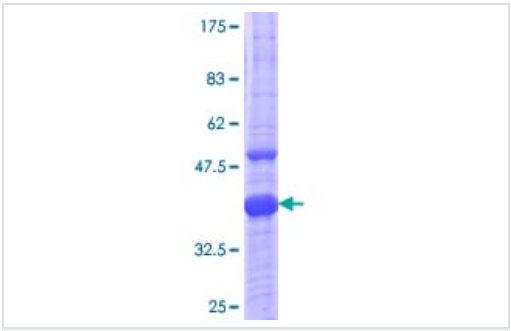
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

General info

Function	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.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the MHC class I family. Contains 1 Ig-like C1-type (immunoglobulin-like) domain.
Domain	The alpha-3 region and to a lesser extent the transmembrane and cytosolic domains regulate surface expression. The alpha-3 region mediates interaction with B2M (PubMed:23051753). The ligand-binding groove is ideally suited to present small organic compounds that can originate from vitamins rather than antigenic peptides.
Post-translational modifications	N-glycosylated.
Cellular localization	Secreted; Cell membrane. Endoplasmic reticulum and Cell membrane. Endoplasmic reticulum membrane. The larger proportion remains in the ER in an immature state. The subset that reach cell surface does it through a B2M-independent pathway.

Images



SDS-PAGE - Recombinant Human MR1 protein (ab158661)

ab158661 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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