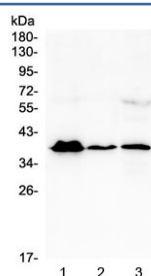


## MR1 Antibody / MHC class I related protein 1 (RQ4943)

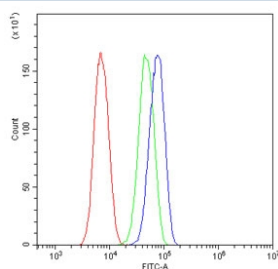
Catalog No.	Formulation	Size
RQ4943	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	Q95460
<b>Applications</b>	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10 <sup>6</sup> cells Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This MR1 antibody is available for research use only.



Western blot testing of human 1) T-47D, 2) U937 and 3) A431 cell lysate with MR1 antibody at 0.5ug/ml. Predicted molecular weight ~39 kDa.



Flow cytometry testing of human SiHa cells with MR1 antibody at 1ug/10<sup>6</sup> cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MR1 antibody.

## Description

Major histocompatibility complex class I-related gene protein is a protein that in humans is encoded by the MR1 gene. 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.

## Application Notes

Optimal dilution of the MR1 antibody should be determined by the researcher.

## Immunogen

Amino acids R23-D269 from the human protein were used as the immunogen for the MR1 antibody.

## Storage

After reconstitution, the MR1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.