Immorta-MAIT T cell clone MG-A11 cell line

Catalogue number: 159692
Sub-type:
Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Immorta-MAIT T cell clone MG-A11 cell line

Alternate name:

Class:
Conjugate:
Description: Mucosal-associated invarient T (MAIT) cells are innate-like T cells (a subset of T cells) that are found in blood, liver, lungs, and mucosa and are known to play a role in defense against bacterial and viral infections. MAITs have also been shown to potentially play a role in autoimmune diseases such as multiple sclerosis, rheumatiod arthritis, and systemic lupis erythematosus.
Purpose:
Parental cell:
Organism: Human
Tissue:
Model: Immortalised Line
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence:
Growth properties: TRAV1-2 is expressed uniformly (determined by flow cytometry staining). This clone expresses CD4, CD8, CD161, and CD27 and can be classified as a double-positive thymocyte. This T cell clone binds the MR1/5-OP-RU tetramer but not MR1/6FP tetramer (negative control). Clone is MR1-restricted in its production of IFN-gamma by ELISPOT test, determined by its response to M.

smegmatis-infected A549 cell line but not a M. smegmatis-infected MR1-- A549 cell line.
Production details: Generated by single cell isolation of MR1/5-OP-RU tetramer+ cells from a human thymus. Single cells were rapidly expanded into a T cell clone using antibody to CD3 (clone OKT3) and IL-2.
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:
Application notes:

Handling

Format: Frozen
Concentration:
Passage number:
Growth medium: Can be use with conventional T cell expansion methods and proliferates under simple culture methods. Cell line can be maintained for at least 3 months.Cultures can be established by centrifugation with subsequent resuspension at 1 x 10^5 viable cells/mL in complete RPMI-1640 medium (10% heat-inavtivated FBS). Optional recombinant IL-2 at 1ng/mL. T-25 flask is recommended for culturing. Recommended concentration to maintain cultures between 1x10^5 and 1x10^6 viable cells/mL. Fresh medium recom...
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions: Dry ice

Related tools

Related tools:

References

References: