

Immorta-MAIT T cell clone IK-B12 cell line

Catalogue number: 159694

Sub-type:

Images:

Contributor

Inventor: Marielle Gold ; Erin Meerseier ; Irina Kurtz ; David Lewinsohn

Institute: Oregon Health & Science University (OHSU)

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Immorta-MAIT T cell clone IK-B12 cell line

Alternate name:

Class:

Conjugate:

Description: Mucosal-associated invariant 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, rheumatoid arthritis, and systemic lupus 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 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 1×10^5 viable cells/mL in complete RPMI-1640 medium (10% heat-inactivated FBS). Optional recombinant IL-2 at 1ng/mL. T-25 flask is recommended for culturing. Recommended concentration to maintain cultures between 1×10^5 and 1×10^6 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:

CancerTools.org