Immortalised CD40 deficient B Cell Line

Catalogue number: 154101
Sub-type:
Images:

Contributor

Inventor: Pranab K Das
Institute:
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Immortalised CD40 deficient B Cell Line

Alternate name: Tumour Necrosis Factor Receptor Super family Member 5, CD4L Receptor, B Cell Surface Antigen CD4, TNFRSF5

Class:
Conjugate:
Description: Can be used as antigen presenting cells. Hyper IgM syndromesÄ?Â???Â is a group ofÄ?Â???Â primary immune deficiency disordersÄ?Â???Â characterised by defectiveÄ?Â???Â CD40Ä?Â???Â signalling;Ä?Â???Â viaÄ?Â???Â B cellsÄ?Â???Â affectingÄ?Â???Â class switch recombinationÄ?Â???Â (CSR) andÄ?Â???Â somatic hyper mutation.Ä?Â???Â ImmunoglobulinÄ?Â???Â (Ig) class switch recombination deficiencies are characterised by elevated serumÄ?Â???Â Immunoglobulin MÄ?Â???Â (IgM) levels and a considerable deficiency inÄ?Â???Â Immunoglobulins GÄ?Â???Â (IgG),Ä?Â???Â AÄ?Â???Â (IgA) andÄ?Â???Â EÄ?Â???Â (IgE). As a consequence, people with HIGM have decreased concentrations of serum IgG and IgA and normal or elevated IgM, leading to increased susceptibility to infections. Hyper IgM Syndrome type 3 is characterised by mutations of the CD40 gene. In this type, B cells cannot receive the signal from T cells to switch classes
Purpose:
Parental cell: B cells from CD40 deficient patient
Organism: Human
Tissue:
Model: Immortalised Line
Gender:
Isotype:
Reactivity:
Selectivity:
Host:

Immunogen:
Immunogen UNIPROT ID:
Sequence:
Growth properties: Maintain at 3x105 to 7x105 cells per ml for optimal growth. Replenish growth medium twice per week
Production details: B Cells were isolated from PBMCs of CD40 deficient Hyper IgM Syndrome patients using standards methods. B cells were transformed with Epstein-Barr virus.
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: RPMI 1640 medium supplemented with 10% FCS, 10mM HEPES buffer, 50U/ml penicillin and 50 ????g/ml streptomycin
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Ivanova et al. 2008. In Vitro Cell Dev Biol Anim. 44(8-9):385-95. PMID: 18594937. ; Immortalization of human melanocytes does not alter the de novo properties of nitric oxide to induce cell detachment from extracellular matrix components via cGMP.