

Product sheet

MR1 | 305000

MR1

Description

MR1 is a murine T cell hybridoma cell line that secretes monoclonal antibodies against the CD154 antigen. It is derived from a fusion of a murine T cell hybridoma (NS-1) and a murine myeloma cell line (CD154). The cell line is characterized by its ability to produce high-affinity monoclonal antibodies against CD154, which is a member of the TNF superfamily. The antibodies produced by MR1 are used in various research applications, including the study of T cell activation and the role of CD154 in the immune system.

Organism Murine T cell hybridoma

MR1

Morphology Lymphoblastoid

Growth properties Adherent

MR1

Citation MR1 (Cytion 305000)

Biosafety level 1

NCBI_TaxID 10090/10032

CellosaurusAccession CVCL_8964

MR1

Protein expression CD154, CD40L, gp39

MR1

Culture Medium RPMI 1640, w: 2.0 mM L-glutamine, w: 2.0 g/L NaHCO3 (Cytion 820700a)

Supplements 10% FBS, 0.05 mM 2-mercaptoethanol

Product sheet

MR1 | 305000

Subculturing 5×10^5 cells per well

Fluid renewal 2-3 times per week

Freeze medium 10^6 cells per vial, 10^6 cells per vial (FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C, then transfer to a pre-warmed medium.
2. Centrifuge at 300 x g for 3 minutes, discard supernatant, wash cells with pre-warmed medium.
3. Resuspend cells in pre-warmed medium, seed into a well.
4. Allow cells to attach for 24 hours, then refresh medium to 70% confluency.
5. Seed cells into a well, incubate for 15 minutes at 37°C.
6. Wash cells with pre-warmed medium, incubate for 30 minutes at 37°C.
7. Seed cells into a well, incubate for 10 minutes at 37°C.
8. Refresh medium to 70% confluency.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Yes

Freezing Procedure Seed cells into a well, incubate for 24 hours at 37°C.

Shipping Conditions Store at -78°C.

Storage Conditions Store at -150°C for 196 days.

HLA

