

SU-DHL-1 | 305876

General Information

Description	SU-DHL-1 is a B-cell lymphoma (ALCL) characterized by the presence of the SU-DHL-1 gene. SU-DHL-1 is a fusion gene resulting from a reciprocal translocation between chromosomes 2 and 5, t(2;5)(p23;q35), which results in the fusion of the N-terminal part of the ALK gene with the C-terminal part of the NPM gene. This fusion results in the production of a chimeric NPM-ALK protein, which is a constitutively active tyrosine kinase that drives the growth and survival of the malignant B-cells.
Organism	Human
Tissue	Primary effusion lymphoma, B-cell lymphoma
Disease	Primary effusion lymphoma, ALK-positive B-cell lymphoma
Synonyms	SU-DHL1, SUDHL1, SUDHL-1, SuDHL-1, SuDHL 1, NPM-ALK fusion gene - B-cell lymphoma 1

Biological Properties

Age	10 years
Gender	Male
Ethnicity	Chinese
Morphology	Large B-cell lymphoma
Cell type	B-cell lymphoma
Growth properties	Aggressive

References and Safety

Citation	SU-DHL-1 (Cytion 305876)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0538

HEK293T SU-DHL-1 | 305876

HEK293T SU-DHL-1-HEK293T

Antigen expression CD163+ CD45- CD10-, CD34- CD30+, CD25+, CD70+, CD71+, CD80+, CD5+, CD7-, CD8- CD19-, CD20-, CD21-, CD22- CD11b-, CD11c-, CD13-, CD14-, CD15-, CD33-

Oncogenes C-fms (c-onc); bcl-6+ (c-onc)

Mutational profile TP53, TP53, TP53, ALK + HGNC, NPM1, NPM1/ALK (PubMed=7824924, PubMed=9121481, PubMed=25485619, PubMed=26657151, PubMed=29899875). TP53, TP53, p.Arg273His (c.818G>A), TP53 (Cosmic-CLP=909742).

HEK293T

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

Supplements 10% FBS

Dissociation Reagent -

Doubling time ~40-50 days

Fluid renewal 2-3 days

Freeze medium RPMI 1640, w: 2.0 mM NaCl, w: 2.0 g/L NaHCO3 (Cytion 820700a) + 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in pre-warmed medium.
3. Seed the cells into a pre-warmed flask. Incubate at 37°C with 5% CO₂.
4. Monitor cell growth and confluency. Harvest cells at 70% confluency.
5. Seed cells into a 15 mL flask. Incubate at 37°C with 5% CO₂.
6. Harvest cells at 300 x g for 3 minutes. Resuspend in pre-warmed medium.
7. Seed cells into a 10 mL flask. Incubate at 37°C with 5% CO₂.
8. Harvest cells at 300 x g for 3 minutes. Resuspend in pre-warmed medium.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Yes

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C, 196 K

HLA

Sterility

PCR negative

Endotoxin free