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Datasheet for WM3629-01-0010

WM3629 Viable Cells

Overview

Description:	WM3629 Viable Cells - WM3629-01-0010
Item No.:	WM3629-01-0010
Size:	10 x 1 million cells
Applications:	Cellular Assay, FC, IF, Microarray, WB
Origin:	Human

Product Details

Background:	WM3629 is a metastatic human melanoma cell line that displays a mesenchymal and dendritic morphology. This cell line was established from a lymph node metastasis site of a patient. This cell line contains a D549G mutation in the BRAF gene resulting in an amino acid substitution from aspartic acid to glycine at codon 549 (Asp549Gly). These cells also express G12D mutation in the N-RAS gene resulting in substitution of glycine with aspartic acid at codon 12 (Gly12Asp).WM3629 cells produce xenograft tumors when injected into immunocompromised mice.
Synonyms:	Melanoma, patient derived tumor, tumor models, skin cancer, xenograft
Species of Origin:	Human

Target Details

Purity/Specificity:	Cells are sterile, validated by short tandem repeat profiling, and are tested as negative for mycoplasma. It is recommended that cell lines are tested for mycoplasma contamination and short tandem repeat (STR) profiling every 10 passages or each time a frozen seed stock is made. See cell culture protocol for additional details.
Relevant Links:	• WM3629-01 SDS • Cell Line EULA • Melanoma Cell Culture Protocol

Application Details

Suggested Applications:	Cellular Assay, FC, IF, Microarray, WB (Based on references)
Application Note:	The key applications of these cell lines include genetic studies, xenograft production, drug testing, and drug target discovery. These cell line models can be used in various biological assays, and for identifying critical target genes, and cell signaling pathways.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Cell Line Data

Cell Line:	Human Melanoma
Product Type:	Viable Cells
Morphology:	mesenchymal and dendritic
Cell Viability:	Yes
Stage:	Metastasis
BRAF:	D594G
CDK4:	WT
C-Kit:	WT
N-RAS:	G12D
PTEN:	WT
Paired:	No
Medium:	Tumor Specialized Media with 2% HI-FBS
Sub-culture:	Cells should be maintained between 30 – 95% confluence in tumor specialized medium with 2% FBS; split cultures 1:6 every 1 week using 0.25% trypsin/EDTA.
Incubation:	36°C with 5% CO2

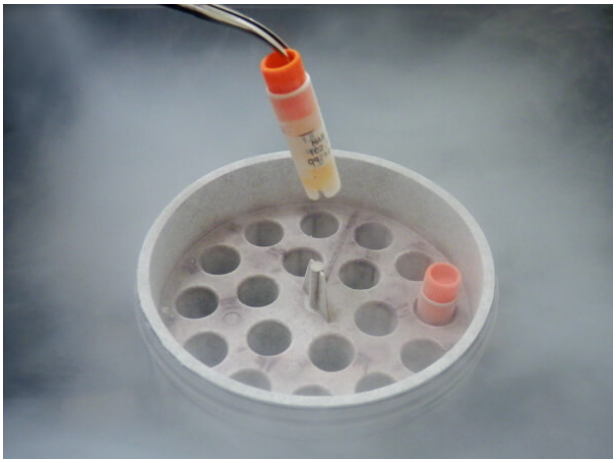
Formulation

Physical State:	Frozen Cell Suspension
Concentration:	1.0 million cells/mL Count By Hemocytometer
Buffer:	None
Preservative:	None
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Cells are frozen with 90% FBS/10% DMSO solution at about 10x10^6 cells/ml. Store vial in liquid nitrogen upon arrival.
Expiration:	Expiration date is two (2) years from date of receipt.

Images



Flask
Human melanoma tumor cells with known gene mutations, disease stage, STR, and RPPA profiling

References

- He S et al. Synergistic melanoma cell death mediated by inhibition of both MCL1 and BCL2 in high-risk tumors driven by NF1/PTEN loss. *Oncogene.* (2021)
- Kim N et al. Novel and potent small molecules against melanoma harboring BRAF class I/II/III mutants for overcoming drug resistance. *Int J Mol Sci.* (2021)
- Maertens O et al. Cancer Discov. *Cancer Discov.* (2019)

Disclaimer

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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