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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for WM1366-01-0001

WM1366 Viable Cells

Overview

Description:	WM1366 Viable Cells - WM1366-01-0001
Item No.:	WM1366-01-0001
Size:	1 million cells
Applications:	Cellular Assay, IHC, WB
Origin:	Human

Product Details

Background:	WM1366 is a tumorigenic (VGP) primary melanoma cell line with competence for metastasis. This cell line was established from a right forearm in a 79-year-old male with stage IV superficial spreading melanoma. WM1366 cells produce xenograft tumors when injected into immunocompromised mice. This cell line features a Q61L mutation at position 61 in the N-RAS gene. The Q61L mutation results in an amino acid substitution at position 61 in NRAS, from a glutamine (Q) to a leucine (L). The role of N-RAS mutations for selecting/prioritizing anticancer treatment, including cytotoxic chemotherapy and targeted agents, is unknown at this time. This cell line is wild type for BRAF, PTEN c-KIT, and CDK4.
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:	• Cell Line EULA • Melanoma Cell Culture Protocol

Application Details

Suggested Applications:	Cellular Assay, IHC, 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:	epithelial
Cell Viability:	Yes
Stage:	VGP
BRAF:	WT
CDK4:	WT
C-Kit:	WT
N-RAS:	Q61L
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 1:10 every 6 days using 0.25% trypsin/EDTA.
Incubation:	36°C with 5% CO2

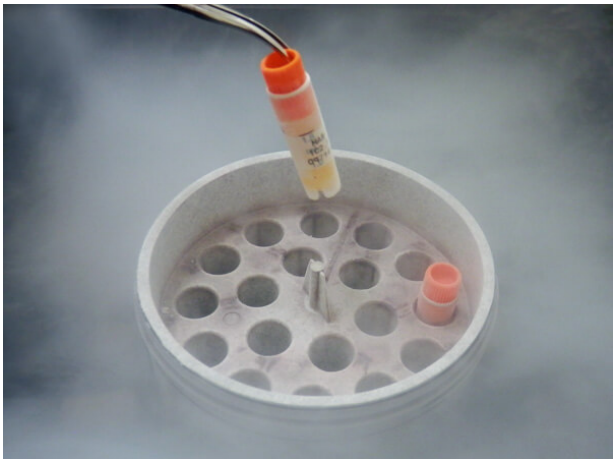
Formulation

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 1x10^6 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

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- Koroknai V et al. Expression pattern of osteopontin isoforms in malignant melanoma cell lines. *Clin Transl Sci.* (2024)
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- Juraleviciute M et al. MX2 mediates establishment of interferon response profile, regulates XAF1, and can sensitize melanoma cells to targeted therapy. *Cancer Med.* (2021)
- Qian L, Chen K, Wang C, Chen Z, Meng Z, Wang P. Targeting NRAS-Mutant Cancers with the Selective STK19 Kinase Inhibitor Chelidonine. *Clin Cancer Res.* (2020)
- Podder B et al. TAK1 suppresses RIPK1-dependent cell death and is associated with disease progression in melanoma. *Cell Death Differ.* (2019)
- Georgouli M et al. Regional activation of myosin II in cancer cells drives tumor progression via a secretory cross-talk with the immune microenvironment. *Cell.* (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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