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Datasheet for WM115-01-0010

WM115 Viable Cells

Overview

Description:	WM115 Viable Cells - WM115-01-0010
Item No.:	WM115-01-0010
Size:	10 x 1 million cells
Applications:	Cellular Assay, IF, WB
Origin:	Human

Product Details

Background: WM115 is a tumorigenic (VGP) primary melanoma cell line with competence for metastasis. This cell line was established from a metastatic site (right anterior leg) in a 55-year-old female with superficial spreading melanoma. The subject displayed VGP with a Clark level III tumor with thickness of 2.24mm.This cell line features the specific V600D (Val600Asp) mutation at codon 600 in the BRAF gene. This cell line also expresses PTEN loss of function including hemizygous deletion. This cell line was derived from the same patient as the cell lines WM239A, WM165-1 and WM266-4. WM115 cell line originated from the primary tumor, and WM239A, WM165-1 and WM266-4 were from individual lymph-node metastases. WM115 cell line is wild type for N-RAS, c-KIT, and CDK4 genes. WM115 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:

- Cell Line EULA
- Melanoma Cell Culture Protocol

Application Details

Suggested Applications:	Cellular Assay, IF, 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
Cell Viability:	Yes
Stage:	VGP
BRAF:	V600D
CDK4:	WT
C-Kit:	WT
N-RAS:	WT
PTEN:	Hemizygous Deletion
Paired:	Yes
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 1:3 every 7 days using 0.25% trypsin/EDTA. This cell line has a doubling time of 36-48 hours which may change slightly with the type of media used.
Incubation:	36°C with 5% CO2

Formulation

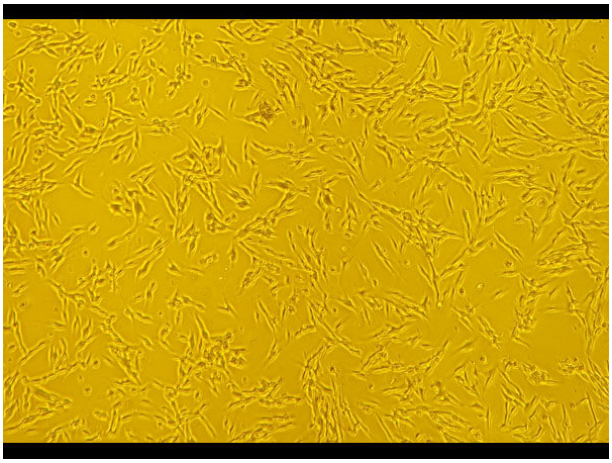
Physical State:	Frozen Cell Suspension
Concentration:	1.0 million cells/mL Count By Hemocytometer
Buffer:	None
Preservative:	None

Stabilizer:	None

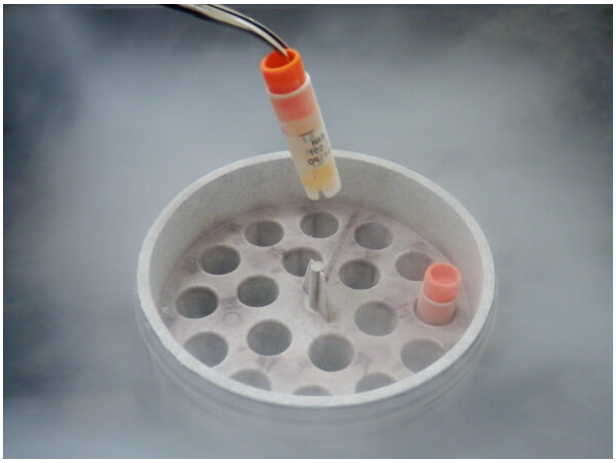
Shipping & Handling

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



Viable cell growth
Established WM115 viable cell growth in culture using appropriate Tumor Specialized Media with 2%FBS.



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

References

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- Castro-Perez E et al. Melanoma Progression Inhibits Pluripotency and Differentiation of Melanoma-Derived iPSCs Produces Cells with Neural-like Mixed Dysplastic Phenotype. *Stem Cell Reports.* (2019)
- Pich C et al. Induction of paracrine signaling in metastatic melanoma cells by PPARγ agonist rosiglitazone activates stromal cells and enhances tumor growth. *Cancer Res.* (2018)

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