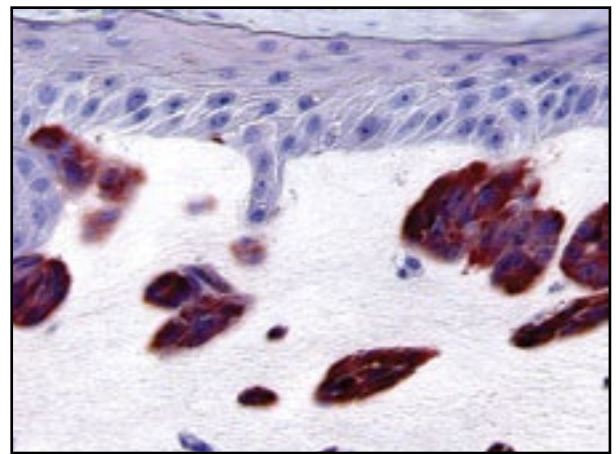
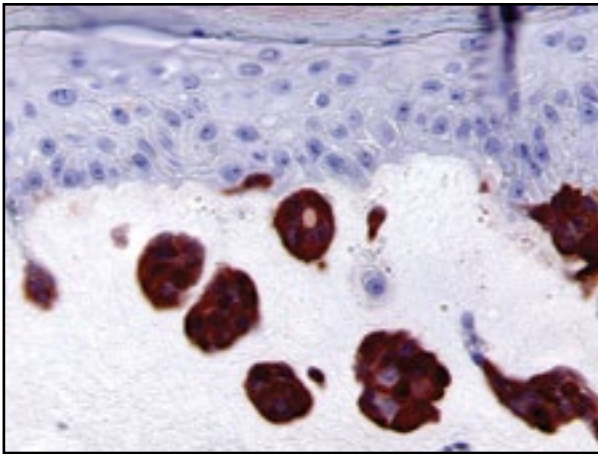


Patient Derived Tumor Models: Melanoma Cell Lines

Patient derived tumor models, including melanoma cell lines and tumor xenografts, are invaluable tools for the development and execution of highly reproducible studies under defined conditions that provide insight into drug sensitivity, basic cell biology, and the elucidation of signaling pathways. Rockland is providing a diverse panel of highly-characterized cell lines. Historically, a number of tumor model systems have lacked scientific value due to the limited characterization of genetic drivers, gene and protein expression, and in vitro/in vivo data. With these human melanoma cell lines, in vitro and in vivo modeling is brought into practice. The benefit of these established cell lines is that they were derived from patients' tumors and thus represent the natural heterogeneity of this disease.



Human Skin Reconstructs and Growth of Melanoma Cells in 2D Culture
Courtesy of Meenhard Herlyn, D.V.M., D.Sc., Wistar Institute, Philadelphia PA

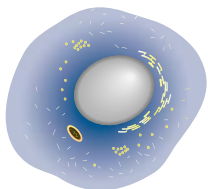
Highly characterized viable cells

Genomic DNA suitable for genomic library preparation, PCR templates, DNA fingerprinting, mutation analysis

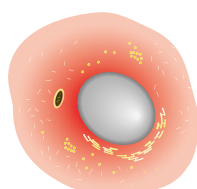
Total RNA purified from each melanoma cell line using RNA isolation & purification kit

Non-viable Cell Pellets available for each melanoma cell line and suitable for Western blotting, Immunoassays, DNA & RNA isolation and STR profiling

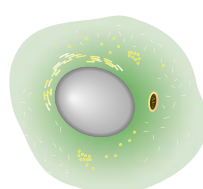
Over 100 Highly Characterized Melanoma Cell Lines Available



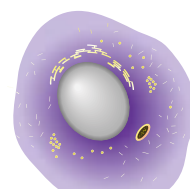
Melanoma Cell Lines
with Mutated BRAF



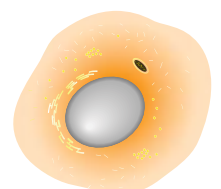
Melanoma Cell Lines
with Mutated N-RAS



Melanoma Cell Lines
with Mutated KIT

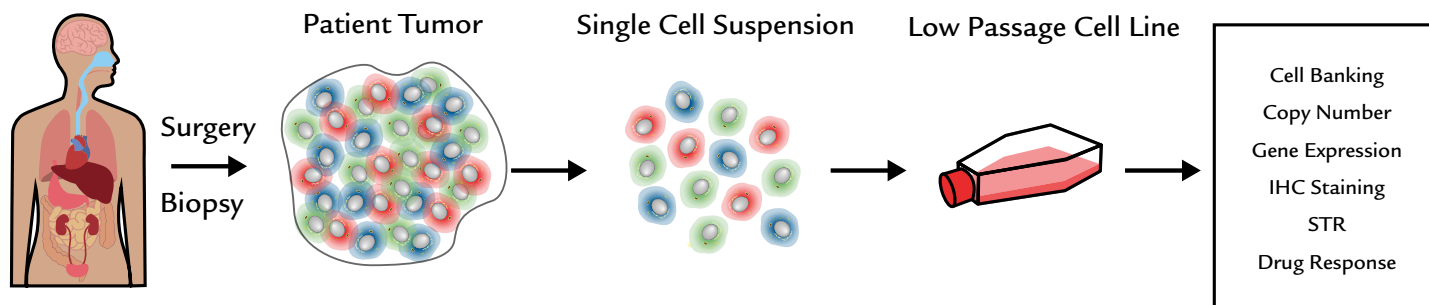


Melanoma Cell Lines
with Mutated PTEN



Melanoma Cell Lines
with Mutated CDK4

Melanoma Cell Lines



A summary table indicating the disease stage, gene mutations, pathology and relevant clinical data for each human melanoma cell line is provided.

Viable Cells	Genomic DNA	Total RNA	Non-viable Cell Pellets
Primary and metastatic pairs available	Purified from each melanoma cell line using genomic DNA preparation kit	Purified from each melanoma cell line using RNA isolation & purification kit	Available for each melanoma cell line
Validated by short tandem repeats (STR) profiling and microarray gene expression	Known concentration	Known concentration	Suitable for Western blotting, Immunoassays, DNA & RNA isolation, STR profiling
Known disease stage, pathology and relevant clinical data	Available in different sizes	Available in different sizes	Available in different sizes
Suitable for genetic studies, xenograft production, drug testing, and drug target discovery	Suitable for genomic library preparation, PCR templates, DNA fingerprinting, mutation analysis	Suitable for sequencing and expression library construction, PCR, real time PCR, microarray analysis	

Rockland also offers a variety of antibodies and antibody-based tools for cancer research

Name	Application	Catalog No.
Fetal Bovine Serum, Certified, Heat Inactivated		FBS-01-0100
Mesothelin Antibody	ELISA, WB, IHC	200-301-A88
AKT Antibody	ELISA, WB, IHC, IF, Flow	100-401-401
AKT pT308 Monoclonal Antibody Biotin Conjugated	ELISA, WB, IHC, Flow	200-306-269
NAG-1 Antibody	ELISA, WB	200-501-B07
Akt phospho S473 Antibody	ELISA, WB, IHC, IF, Flow	200-301-268



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