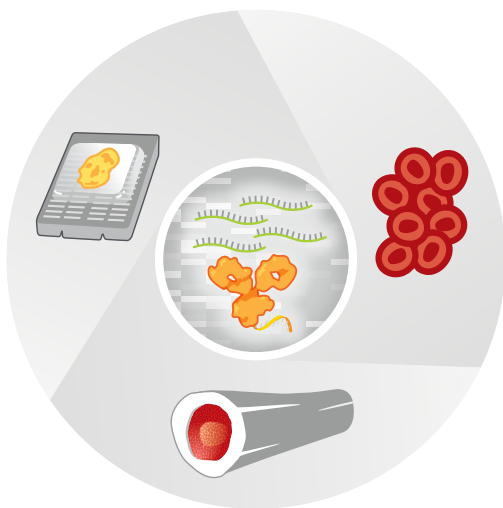




nCounter® Vantage 3D™ RNA:Protein Heme Assay

Simplify Heme Profiling with Multiplexed Detection of RNA, Protein, and Phospho-Protein Expression

The nCounter Vantage 3D RNA:Protein Heme Assay simplifies phenotypic profiling with curated content covering key hematologic signaling pathways. This highly multiplexed assay is capable of simultaneously characterizing RNA and protein expression from as little as 2 FFPE slides or just 25 ng RNA, and 250 ng of protein. Powered by nCounter technology, which employs amplification-free direct digital counting, the Vantage 3D RNA:Protein Heme Assay provides integrated measurements to simplify your research and eliminate the challenge of comparing data from different technologies with different outputs.



Product Highlights

More data from your precious samples. Multi-analyte profiling requires just 2 FFPE slides or 1 µg of protein (for RNA and protein).

- Simple protocol for FFPE (RNA and protein) and cell and tissue lysates (RNA)
- Integrated data analysis, eliminating the need for a bioinformatician
- Customizable with up to 24 RNA and 5 additional protein targets
- Flexible design enables mix and match capabilities with other Vantage 3D Assays

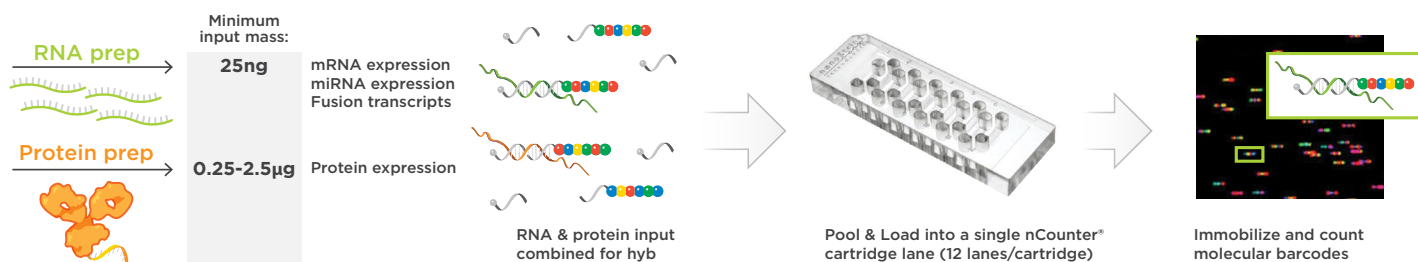
Feature	Specifications
Lysate Input Material	1 µg protein (for RNA and Protein)
FFPE Input Material	Two 5 µm FFPE slides (1 mm ²)
Time to Results	48 hours (lysate), 72 hours (FFPE)
Sample Types	FFPE, Fresh Frozen Tissue, PBMC , Other Cell Lysates
Data Analysis	nSolver™ Analysis Software and the ROSALIND® Platform

1. Prepare Sample

2. Hybridize

3. Pool & Load

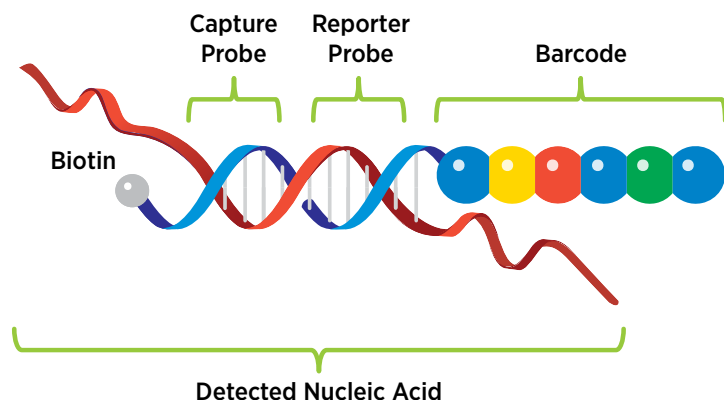
4. Analyze/report



Unique Chemistry for Precise Multi-Analyte Profiling

nCounter technology can be used by researchers to detect a variety of nucleic acids of increasing variety, including mRNA and miRNA, using unique molecular barcodes. NanoString protein analysis leverages antibodies for detection of proteins of interest that are barcoded with unique synthetic DNA oligonucleotides.

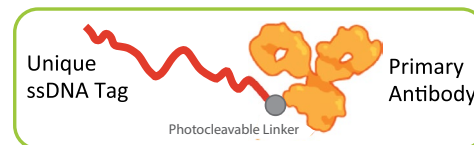
Each DNA oligonucleotide is recognized by a unique reporter probe that contains a fluorescent barcode, identical to the NanoString RNA probe chemistry. RNA and protein reporter probes are imaged and counted by the nCounter Analysis System to provide a direct, digital readout of RNA and protein expression.



RNA Detection



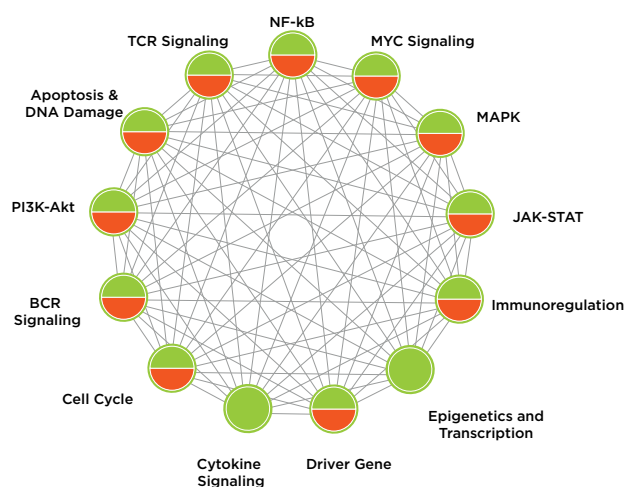
Protein Detection



Curated Content Focused on Key Signaling Pathways

Despite the great diversity in cell of origin and other clinical features, hematologic malignancies share a core set of pathways and processes that drive tumorigenesis. Pathways critical to the normal growth and development of the hematopoietic compartment, such as MAPK, MYC signaling, NF- κ B, PI3K-AKT, and B cell and T cell receptor signaling are frequently mutated and disrupted. Additionally, dysregulation of cytokines, apoptosis, the DNA damage response, and epigenetic factors are frequently seen in gene expression as well as mutational profiles across a variety of these cancers.

Seminal publications focused on hematologic oncology research and signature development were collated and scored to develop a curated 192-plex RNA gene set and up to 35-plex protein and phospho-protein panel that measures the conserved and crucial pathways underlying hematologic malignancies. The Vantage 3D™ RNA:Protein Heme Assay integrates this content to provide a single view of hematologic malignancy biology.



Ordering Information

Product	Format	Product Description	Quantity	Catalog Number
Vantage 3D RNA Heme Panel	Code Set Only	RNA only for use as a stand-alone assay or with other Vantage 3D DNA and/or protein panels	12 reactions	VRXC-HEME-12
Vantage 3D Protein Heme Panel for FFPE (D)	Code Set Only plus select sample prep reagents	For use as a stand-alone protein assay. For FFPE samples.	12 reactions	VPODC-HHMF-12
Vantage 3D Protein Heme Panel for FFPE (R)	Code Set Only plus select sample prep reagents	For use with RNA including custom CodeSets, PanCancer RNA Panels, and nCounter Vantage 3D RNA Panels. For FFPE samples.	12 reactions	VPRXC-HHMF-12
Vantage 3D Protein Barcoding Service	Service	Customization Service for spike-in to above protein panels or full custom panel development	1 each	PBS-1AB
Vantage 3D Protein Barcoding Service - Cross Reactivity Testing	Service	Cross Reactivity Service for spike-in custom protein only	1 each	PBS-XTEST
Master Kit (Max or Flex Systems)	Reagents and Cartridges	Reagents, cartridges, and consumables necessary for sample processing	12 reactions	NAA-AKIT-012
nCounter SPRINT Cartridge	Reagents and Cartridges	1 Cartridge, 12 lanes	12 reactions	SPRINT-CAR-1.0
nCounter SPRINT Reagent Pack	Reagents and Cartridges	Reagents A,B,C, & Hybridization Buffer	192 reactions	SPRINT-REAG-KIT

For more information, please visit nanosttring.com

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SEP 2021 MK3666

