

Vantage 3D RNA:Protein Immune Cell Signaling Assay for Cell Suspensions with Intracellular-Compatible Universal Cell Capture Kit

The nCounter® Vantage 3D RNA:Protein Immune Cell Signaling Assay for cell suspensions simplifies RNA and protein expression analysis with curated content for 770 RNA and 26 intracellular protein targets. This highly multiplexed assay is capable of simultaneously characterizing RNA and protein from as few as 50,000 cells with integrated data analysis for multi-analyte profiling from a single sample.

The core nCounter technology uses unique molecular barcodes to detect nucleic acids of increasing variety. Protein detection in the Vantage 3D RNA:Protein Immune Cell Signaling Assay utilizes antibodies specific to proteins of interest that have been barcoded with unique synthetic DNA oligonucleotides. Each DNA oligonucleotide is then recognized by a unique Reporter probe that contains a fluorescent barcode.

All analytes are imaged and counted simultaneously by the nCounter Analysis System to provide a direct, digital readout of RNA and protein expression.

Learn more about [3D Biology™ Technology](#).

Product Workflow

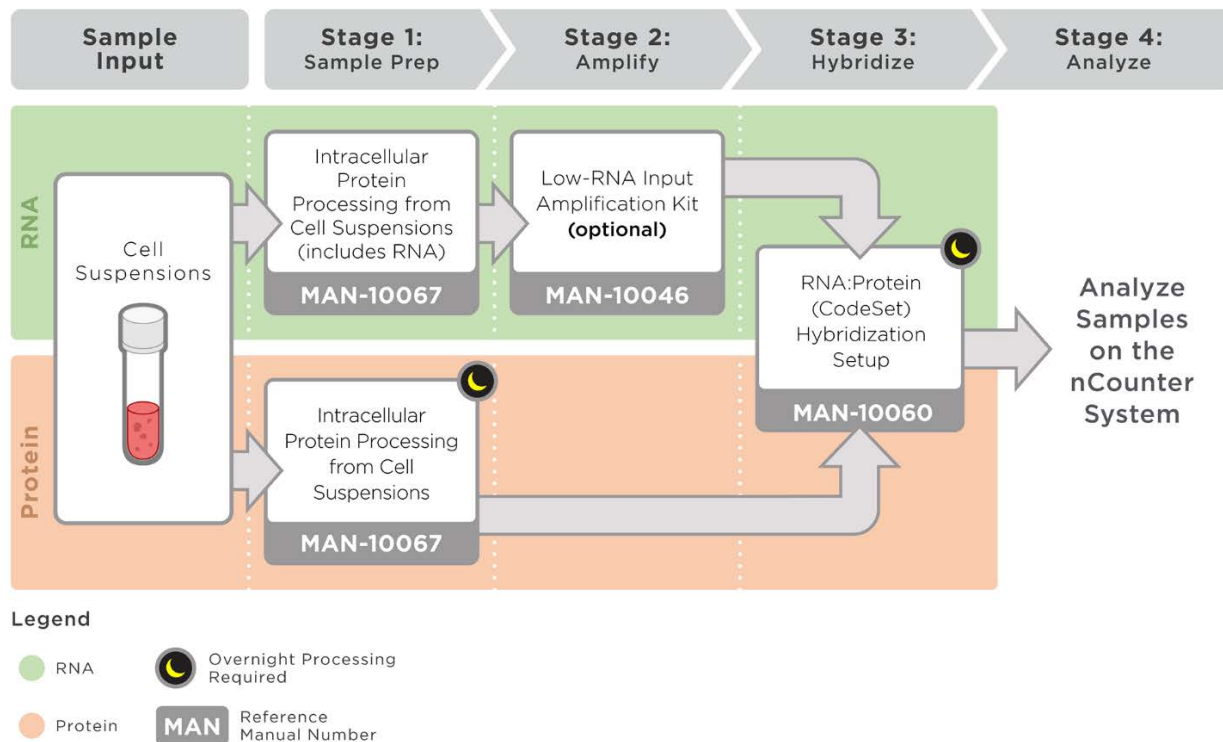


Figure 1. Workflow for the Vantage 3D RNA:Protein Immune Cell Signaling Assay for Cell Suspensions with Intracellular-Compatible Universal Cell Capture Kit.

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Materials and Supporting Documents

Table 1. Materials provided in the Vantage 3D RNA:Protein Immune Cell Signaling Assay for Cell Suspensions with Universal Cell Capture Kit

Kit	Material	Storage
Vantage 3D RNA:Protein Immune Cell Signaling Assay for Cell Suspensions + Universal Cell Capture Kit	RNA	
	Reporter CodeSet	-80°C
	Capture ProbeSet	-80°C
	Protein	
	Protein Plus	-80°C
	Antibody Mix	-80°C
	Universal Cell Capture Kit	
	Universal Cell Capture Beads	4°C (2–8)°C (Do not freeze)
	Buffer FD	4°C (2–8)°C
	Buffer FC	4°C (2–8)°C
	Buffer PW	4°C (2–8)°C
	Buffer W	4°C (2–8)°C
	Buffer LH	Room temperature (15–25)°C

NOTE: Please reference the manuals listed in Figure 1 and Table 2 for additional required reagents not supplied by NanoString.

Table 2. Supporting Documents

Step	Manual	Protocol
Protein Preparation	MAN-10067	Intracellular Protein Processing from Cell Suspensions with Universal Cell Capture Kit, Intracellular Compatible
Sample Amplification	MAN-10046	Low-RNA Input Amplification Kit (optional)
Hybridization	MAN-10060	RNA:Protein (CodeSet) Hybridization Setup

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