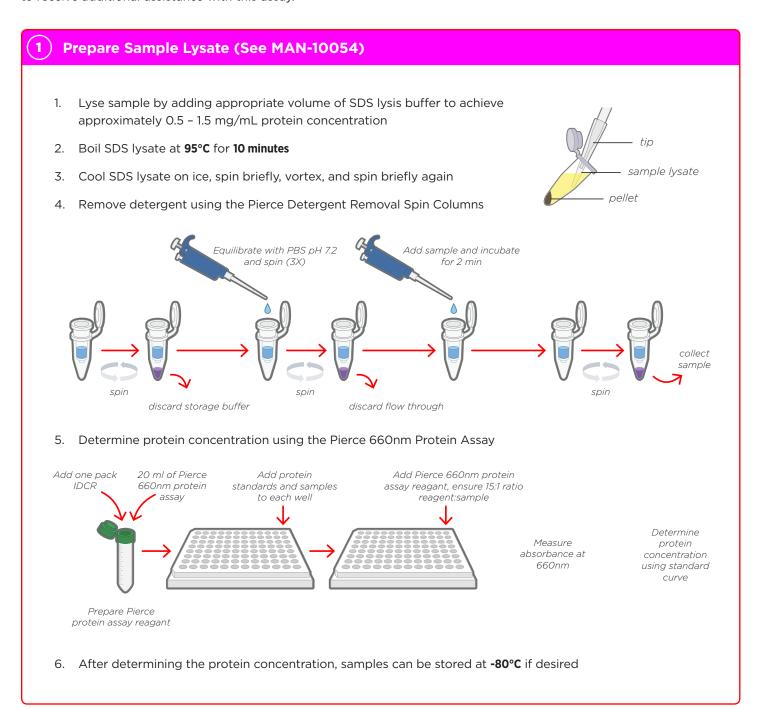
Quick Start Guide

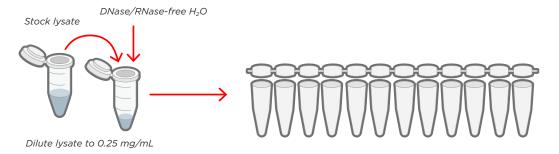
nCounter® Vantage 3D™ RNA:Protein Solid Tumor Assay for lysate

This quick start guide provides an overview of the research protocol for preparation of RNA and protein from cell or tissue lysate samples. If you are a first-time user and for buffer preparation, please read the full protocols related to your Vantage 3D Assay and use this as a reference in subsequent experiments. Contact NanoString Support (**support@nanostring.com**) to receive additional assistance with this assay.



2 Prepare RNA Lysate (See MAN-10054)

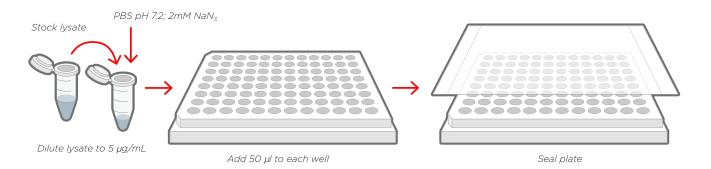
- 1. Dilute a small aliquot of the detergent-free lysate to 0.25 mg/mL using nuclease-free dH $_2$ O. (A volume of 4 μ l is required for hybridization)
- 2. Transfer diluted lysate to a 12-well strip tube



3. Store at -80°C until ready to proceed with hybridization

3) Bind Protein to Plate (See MAN-10054)

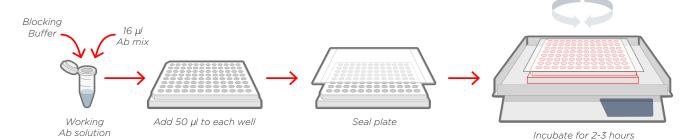
- 1. Dilute the detergent-free lysate to $5 \mu g/ml$ using PBS pH 7.2 with 2 mM NaN₃
- 2. Add 50 µl of the diluted lysate into a well of a protein-binding plate (MAXISORP plate) and seal with parafilm
- 3. Incubate for at least **2 hours** or **overnight** at room temperature



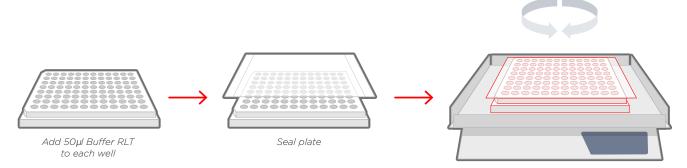
- 4. Add 200 µl of Blocking Buffer that has been pre-warmed to room temperature
- 5. Incubate for **5 minutes** at room temperature (Maximum incubation time is **1 hour**)
- 6. Remove and discard supernatant by flicking the plate into a sink and striking on a fresh paper towel hard enough to remove any residual liquid
- 7. Wash 3X by adding 250 μ l of TBST pre-warmed to room temperature and incubating for **1 minute**. Remove and discard supernatant by flicking the plate into a sink and striking on a fresh paper towel hard enough to remove any residual liquid

4 Prepare Protein Lysate (See MAN-10054)

- 1. Prepare a working antibody solution by adding 16 μ l of the NanoString antibody mix to 625 μ l of blocking buffer
- 2. Add 50 µl of the working antibody solution to each well
- 3. Seal the plate and incubate at room temperature for **2 hours** on an orbital shaker at 350-400 RPM (Maximum incubation time is **3 hours**)



- 4. Carefully remove and discard all supernatant with a single-channel pipette
- 5. Wash 6X by adding 250 µl of TBST pre-warmed to room temperature and incubating for **5 minutes.** Remove and discard supernatant by flicking the plate into a sink and striking on a fresh paper towel hard enough to remove any residual liquid
- 6. Add 50 µl of buffer RLT to each well
- 7. Seal the plate and incubate at room temperature for 5 minutes on an orbital shaker at 350-400 RPM



8. Transfer the lysate to a 12-well strip tube



 See appropriate manual for hybridization set up: MAN-10059 Protein Only MAN-10060 RNA:Protein (CodeSet) MAN-10065 RNA:Protein (TagSet) Incubate for 5 minutes



For more information, please visit nanostring.com

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