Nanostring Core sample preparation recommendations

RNA isolation

For fresh or frozen tissue or cells RNA can be isolated using the Qiagen RNeasy mini kit or Ambion PureLink RNA mini kit.

Trizol is not recommended. If you use Trizol, do an additional purification with an RNA cleanup kit. Traces of Trizol will interfere with the hybridization step.

The RNA should have 260/280 and 260/230 ratios of 2 and a strong absorbance peak at 260 nm

Provide 100 ng of RNA in 5ul (20 ng/ul). The RNA can be diluted in RNase-free water.

For FFPE tissue
The Qiagen Rneasy FFPE kit is recommended. A bioanalyzer trace with fragment analysis is required to assess the quality of the RNA and determine the correct amount to be used.

up to 300ng of RNA will be needed

Cell lysates

for 10,000- 100,000 cells.

Prepare lysis buffer: 1 part Qiagen Buffer RLT to 3 parts water

resuspend each sample in 5 ul of lysis buffer