

Custom Reagents for GeoMx DSP Preparations

Objective: Integration of custom antibodies to be used as morphological markers for GeoMx RNA analysis

Considerations:

- Validation can add weeks to the experimental process. Start this process first.
- Verify what fluorescent dye you wish to use
- The GeoMx can only accommodate 4 fluorescent channels. **Cy5** being available if you wish to use a NanoString Morphology Kit with a custom antibody

Dyes	FITC	Cy3	Texas Red	Cy5
Ex Filter (center/band)	480/28	538/19	588/19	646/19
Emission Filter (center/band)	516/23	564/15	623/30	683/30
Suggested Fluorochromes	Syto13 (DNA) AF488	AF532 PE Syto83 (DNA)	AF594	AF647 Dylight 650
Melanoma	DNA	S100B/PMEL	CD45	
Solid Tumor	DNA	PanCK	CD45	

Contact NanoString Customer Service to see what's available

GeoMx Support geomxsupport@nanosttring.com

1+888.358.6266 (For GeoMx support, press 2)

Three workflows:

Pre-validated by the NanoString

Please provide:

Antibody specification sheet

Protocol (how was it validated)

Antigen retrieval system used (Tris-EDTA, Citrate, etc)

Optimum concentration of the antibody (1µl/ml, 1:200)

Tissue used to validate staining (FFPE mouse liver, tissue array, fresh frozen)

Pre-validated by the client laboratory

Please provide:

Antibody specification sheet

Protocol (how was it validated)

Antigen retrieval system used (Tris-EDTA, Citrate, etc)

Optimum concentration of the antibody (1 μ l/ml, 1:200)

Tissue used to validate staining (FFPE mouse liver, tissue array, fresh frozen)

Validated by AGC

This is provided as a “Fee for Service” option and must be initiated at the onset of the Service Request. Contact AGC for more information

Please provide:

Antibody specification sheet

Protocol (how was it validated)

Tissue slides used to validate staining (FFPE mouse liver, tissue array)

Number of slides per antibody may vary depending on the information available on the antibody staining characteristics and the needs of the experiment

- H&E (1)
- Negative control (1)
- 3 dilutions (3)
- Retrieval test (2)
- Number of different tissues being stained (n)