GeoMx® Protein Barcoding Kits
Spatially Profile Custom Protein Targets with either nCounter or NGS Readout

Expand your discovery further with high-plex GeoMx® Protein Assays with the GeoMx Protein Barcoding Kit. Off-the-shelf GeoMx Protein Assays currently enable up to 150-plex for protein profiling on GeoMx Digital Spatial Profiler (DSP). Now researchers can increase their plex with up to 5 additional antibodies of interest. The GeoMx Protein Barcoding Kit is offered in two formats for either nCounter® or NGS readout for GeoMx Protein Assays. With an easy workflow and minimal hands-on time, researchers can quickly conjugate antibodies to detect protein targets for any research project.

Product Highlights
- Conjugate up to 5 antibodies of interest
- Requires 100 μg of antibody
- Less than three hours of hands-on time and less than one day total workflow
- Includes Amicon® Ultra-Filter Units and other required reagents
- For use with GeoMx Protein Assays for NGS or nCounter readout
- Each kit includes one conjugation positive control

GeoMx Custom Protein Workflow
As part of the overall Custom Protein Workflow, the GeoMx Protein Barcoding Kit enables researchers to barcode antibodies of interest with a GeoMx DSP barcode in a single day with minimal hands-on time. Once antibodies have been barcoded, researchers can continue with their Custom Protein Workflow for any further appropriate functional testing. When custom antibodies are barcoded with the GeoMx Protein Barcoding kit, the addition of this content to GeoMx Protein Assays enables profiling up to 150 plex in a single experiment.

Antibody Selection | GeoMx Protein Barcoding Kit | Confirm Functionality | GeoMx Protein Assay
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Select a carrier free, unconjugated antibody specific for your target of interest. Confirm antibody specificity by performing a functional test like IHC (Immunohistochemistry) prior to conjugation. | Use the GeoMx Protein Barcoding Kit to conjugated a GeoMx DSP Barcode to your antibody. | Post conjugation, confirm antibody specificity performing another functional test like IHC | Once conjugation is completed, antibody is now ready to use with GeoMx Protein Assays on the GeoMx DSP.
Conjugation and Functional Performance Comparable to GeoMx Protein Assays

The GeoMx Protein Barcoding kit uses a conjugation method that yields antibodies have similar functional performance to the same antibodies developed for commercial GeoMx Protein Assays (Figure 1). Additionally, the purification process in the GeoMx Protein Barcoding Kit uses a workflow that provides purified, barcoded antibodies that are ready to use for downstream assays (Figure 2).

For more information for using custom, conjugated antibodies, visit nanostring.com/geomx-protein-assays.

Ordering Information

<table>
<thead>
<tr>
<th>Product</th>
<th>Product Description</th>
<th>Quantity</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>GeoMx Protein Barcoding Kit for NGS Compatible with Illumina Systems</td>
<td>One kit which includes five DNA indexing-oligonucleotides with a UV-photocleavable linker, one conjugation control oligonucleotide, Buffer A, Buffer B, Buffer C, Amicon Ultra-0.5 Centrifugal Filter Units and spin tubes. Must be run with a protein core for NGS readout.</td>
<td>1 Kit</td>
<td>GMX-PBK-NGS-5AB</td>
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<tr>
<td>GeoMx Protein Barcoding Kit for nCounter</td>
<td>One kit which includes five DNA indexing-oligonucleotides with a UV-photocleavable linker, one conjugation control oligonucleotide, Probe R, Buffer A, Buffer B, Buffer C, Amicon Ultra-0.5 Centrifugal Filter Units and spin tubes. Must be run with a protein core for nCounter readout.</td>
<td>1 Kit</td>
<td>GMX-PBK-NCT-5AB</td>
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For more information, please visit nanostring.com/GeoMxDSP