

The 100-plex spatial multiomics grant program

Custom antibody selection and provision guidelines

Up to four (4) custom antibodies may be proposed to supplement the curated antibody panel provided by Lunaphore to reach 100-plex, subject to the conditions outlined below. Compliance with these requirements is mandatory and constitutes a material obligation of the grant winner.

Provision of custom antibodies

Any custom antibody intended to complement the 100-plex panel and not included in Lunaphore's curated antibody list **must be supplied by the grant winner** at their own cost and responsibility.

Antibody validation requirements

- **Prior validation is mandatory** for all custom antibodies.
- Validation may be performed using established staining methodologies, including but not limited to immunohistochemistry (IHC), multiplex immunofluorescence (mIF), or TSA-based approaches.
- Validation must be conducted on **tissue types comparable to those proposed for the grant project**.

Antigen retrieval compatibility

All custom antibodies must be validated in advance using **heat-induced antigen retrieval (HIER) at pH 9** on comparable specimens. Antibodies incompatible with these conditions may be deemed unsuitable for integration into the 100-plex Grant Program.

Preferred antibody characteristics

For optimal integration and performance, the following antibody characteristics are strongly preferred:

- Primary antibodies derived from **mouse, rabbit, or rat**
- **IgG isotype** or **polyclonal antibodies**

Primary antibodies derived from other species may be considered; however, such cases must be discussed with and approved by Lunaphore prior to project commencement.

Format and handling requirements

- Antibodies must be supplied **unconjugated**.
- Antibodies must be provided in **concentrated formats**; ready-to-use preparations are not acceptable.

Documentation and quantity

- The Prize Winner must provide **reference images** demonstrating target expression at both the **cellular and tissue levels**, generated under previous conditions specified by Lunaphore and submitted prior to project start.
- The required volume of each custom antibody shall be determined based on the Prize Winner's validated staining conditions and will be communicated by Lunaphore.

Lunaphore reserves the right to request additional documentation or to exclude antibodies that do not meet the technical or quality standards required for successful project execution.

These guidelines are subject to revision. The most current version as provided by Lunaphore shall prevail and shall be binding upon all grant winners.