



VERSION 2
JAN 05, 2023

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.eq2ly77krlx9/v2

Protocol Citation: Benedicte Bjørknes, Oliver Emil Neye, Petra Hamerlik, Liselotte Jauffred 2023. Immunostaining infiltrating spheroids as preparation for quantitative light-sheet imaging. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.eq2ly77krlx9/v2> Version created by [Liselotte Jauffred](#)

MANUSCRIPT CITATION: PLOS2022 this protocol is associated with a PLOS ONE Lab Protocol Submission with the title: "Immunostaining protocol for infiltrating brain cancer spheroids for light-sheet imaging" with manuscript number of our PLOS ONE submission: PONE-D-22-31029

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

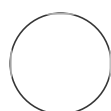
🌐 Immunostaining infiltrating spheroids as preparation for quantitative light-sheet imaging V.2

Benedicte Bjørknes¹, Oliver Emil Neye¹, Petra Hamerlik^{2,3}, [Liselotte Jauffred](#)¹

¹The Niels Bohr Institute, University of Copenhagen, Blegdamsvej 17, DK-2100 Copenhagen O, Denmark;

²Danish Cancer Society, Strandboulevarden 49, 2100 Copenhagen Denmark;

³Division of Cancer Sciences, University of Manchester, M13 9NT Manchester, United Kingdom



Liselotte Jauffred

ABSTRACT

Although various in vivo and in vitro models for studying glioblastoma cell invasion has progressed the field, there is still a need for optimized procedures. In particular to reveal key features of glioblastoma biology and infiltrating growth. In this protocol, we present an approach using indirect immunofluorescence in a 3D human xenograft glioblastoma spheroid model embedded in a naturally derived extracellular matrix

ATTACHMENTS

[protocol.pdf](#)

Protocol status: Working
We use this protocol and it's working

Created: Jan 05, 2023

Last Modified: Jan 05, 2023

PROTOCOL integer ID:
74805

Keywords: glioblastoma,
invasion assay,
immunostaining, hydrogels,
spheroids, tumorspheres,
light-sheet microscopy