



Nov 10, 2022

Version 1

# Immunostaining infiltrating spheroids as preparation for quantitative light-sheet imaging V.1

DOI

[dx.doi.org/10.17504/protocols.io.eq2ly77krlx9/v1](https://dx.doi.org/10.17504/protocols.io.eq2ly77krlx9/v1)

Benedicte Bjørknes<sup>1</sup>, Oliver Emil Neye<sup>1</sup>, Petra Hamerlik<sup>2,3</sup>, Liselotte Jauffred<sup>1</sup>

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

<sup>2</sup>Danish Cancer Society, Strandboulevarden 49, 2100 Copenhagen Denmark;

<sup>3</sup>Division of Cancer Sciences, University of Manchester, M13 9NT Manchester, United Kingdom



Liselotte Jauffred

University of Copenhagen

## Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.eq2ly77krlx9/v1>

**Protocol Citation:** Benedicte Bjørknes, Oliver Emil Neye, Petra Hamerlik, Liselotte Jauffred 2022. Immunostaining infiltrating spheroids as preparation for quantitative light-sheet imaging. **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.eq2ly77krlx9/v1>

**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

**Protocol status:** Working

**We use this protocol and it's working**

**Created:** November 09, 2022

**Last Modified:** November 10, 2022

**Protocol Integer ID:** 72523

**Keywords:** 3d human xenograft glioblastoma spheroid model, studying glioblastoma cell invasion, immunostaining infiltrating spheroid, glioblastoma cell invasion, glioblastoma biology, key features of glioblastoma biology, using indirect immunofluorescence, infiltrating spheroids as preparation, immunofluorescence, vitro model, various in vivo, cell, sheet imaging, imaging

**Funders Acknowledgements:**

**Danish National Research Councils**

Grant ID: DNRF116

**Novo Nordisk Foundation**

Grant ID: NNF14OC0011361

**The Danish National Research Foundation**

Grant ID: 0165-00032B

**Danish National Research Councils**

Grant ID: 0165-00103B

## 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



[EMT\\_protocol.pdf](#)

110KB

## Troubleshooting

