Apr 08, 2022

HuBMAP | GE/ University of Washington Cell DIVE™ Modality Overview

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dx.doi.org/10.17504/protocols.io.3byl4bwmzvo5/v1

Human BioMolecular Atlas Program (HuBMAP) Method Development Community

GE Research

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This is an overview of all protocols currently in use for the GE/University of Washington Cell DIVE collaboration for the Human BioMolecular Atlas Program (HuBMAP). It includes links to each of the individual protocols that make up this project workflow.

DOI

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Liz McDonough 2022. HuBMAP | GE/ University of Washington Cell DIVE™ Modality Overview. **protocols.io** https://dx.doi.org/10.17504/protocols.io.3byl4bwmzvo5/v1

Human Biomolecular Atlas Program (HuBMAP)
Grant ID: 3UH3CA246594-02S1

protocol ,

Apr 07, 2022

Apr 08, 2022

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1 Protocol for Tissue Collection from Organ Procurement Organization

2 Prepare paraffin blocks and FFPE sections from tissue samples.

HuBMAP Tissue Preservation Protocol

3 Deparaffinize and rehydrate slides.

Cell DIVE™ Platform | Slide Clearing and Antigen Retrieval

4 Characterize antibodies (primary/secondary, direct conjugates, and zenon labelled antibodies) and determine any antigen effects from the Cell DIVE dye inactivation process.

Cell DIVE™ Platform | Antibody Characterization for Multiplexing
Cell DIVE™ Platform | Antibody Staining & Imaging

5 Prepare direct conjugates for study.

Cell DIVE™ Platform | Antibody Purification Chemistry
Cell DIVE™ Platform | Ab Conjugation: Initial Conjugation & Scale up Conjugation

6 Perform Cell DIVE™ multiplexed data acquisition on the final cohort.

Staining is done using the Leica Bond MAX and images are acquired on the Leica Cell DIVE imager.

Citation: Liz McDonough HuBMAP | GE/ University of Washington Cell DIVEÃ¢ÂÂ¢ Modality Overview
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