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

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Protocol status: Working

We use this protocol and it's working

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Abstract

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.



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.

Note

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