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Ionpath MIBI (Multiplexed Ion Beam Imaging) Protocols -- University of Minnesota TMCs

DOI

<https://dx.doi.org/10.17504/protocols.io.5jyl8jyp8g2w/v1>

Cellular Senescence Net...



Mickayla DuFresne-To

University of Minnesota - Twin Cities

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Protocol status: Working

We use this protocol and it's working

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Abstract

Link to information regarding Ionpath MIBI as used by the University of Minnesota



1 *Links to company sites:*

<https://www.ionpath.com/>

<https://www.ionpath.com/mibiscope/>

2 **Slides and Reagents from Ionpath for MIBI**

Slides (Cat#: 567001): specially formulated, high-purity gold-coated slides

Reagents

MIBI 20X TBS-T (Cat#: 567005)

MIBI 10X PBS (Cat#: 567004)

MIBI 10X Tris pH8.5 (Cat#: 567003)

MIBI diH₂O (Cat#: 567002)

Current Ionpath company Conjugated Antibody information for human FFPE tissue and mouse FFPE or frozen tissue: <https://www.ionpath.com/conjugated-antibodies/>

<https://www.ionpath.com/antibody-panels/>

Ionpath Conjugation kits:

<https://www.ionpath.com/antibody-conjugation-kit/>

3 **Overview of the MIBI staining protocol with Ionpath reagents and slides**

1. Prepare and bake the slides
2. Deparaffinization and Rehydration
3. Heat-induced Antigen retrieval
4. Wash with MIBI 20X TBS-T (Cat#: 567005)
5. Blocking
6. Antibody Staining (Metal-conjugated Abs)
7. Fixation and Dehydration
8. Dry and Store the slides if not processing on scope right away.