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WORKS FOR ME 1

Organoid Immunohistochemistry on Ventana Benchmark XT Forked from Organoid Immunohistochemistry on Ventana Benchmark XT

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COMMENTS 0

ABSTRACT

Organoid Immunohistochemistry on Ventana Benchmark XT

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1

Kristen Whitney

FORK NOTE

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	Immunohistochemistry of organoid sections
1	Fix organoids in 10% NBF for 15-30 minutes.
2	Prepare paraffin-embedded blocks on tissue processer.
3	Cut 5µm sections from FFPE (formalin-fixed paraffin-embedded) blocks using microtome.
4	Mount sections on positively charged slides and bake overnight at 70° C.
5	Prepare primary antibody dilution kit (depending on antibody concentration) for Ventana Benchmark XT automatic staining platform (Roche Diagnostics, Indianapolis, IN) according to the manufacturer's protocol.
6	Load slides onto Ventana and run through alcohol, antigen retrieval, primary antibody incubation and visualization steps.
7	Coverslip slides and let dry overnight.

Digital Histopathologic Analysis in QuPath

- 8 Scan slides at 40x on Aperio VERSA 8 (Leica Biosystems, Wetzlar Germany) digital slide scanner.
- 9 Manually segment organoids to generate annotatios in QuPath (version 0.2.3, https://QuPath.github.io/).
- Perform color deconvolution and determine appropriate settings for positive-pixel-based analysis.