

## RNAscope<sup>®</sup> 2.5 Automated Assay on Leica Biosystems' BOND RX Doc. No. CHK 47-016

**Note**: This checklist includes consumables that are required for both the BROWN-DAB assay and the RED-AP assay. If only one assay is ran, only the required combination of Leica and ACD reagent kits need to be ordered.

## **Reagents/Materials required from Leica Biosystems**

- □ BOND Polymer Refine Detection (DAB or Red) and Hematoxylin. These kits contain prefilled chromogens DAB (Cat. No. DS9800) or Red (Cat. No. DS9390), and Hematoxylin reagents.
- □ BOND Open Containers (Cat. No. Op309700). Fill these containers with reagents from the RNAscope LS Reagent Kit.
- BOND Universal Covertiles (Cat. No. S21.2001).
- □ BOND Dewax Solution (Cat. No. AR9222). Place solution in one of the large containers located in the bottom of the instrument.
- BOND Epitope Retrieval Solution 1 and 2 (Cat. Nos. AR9961 and AR9640).
- □ BOND Wash Solution 10X (Cat. No. AR9590). Dilute solution 1:10 and place in one of the large containers located in the bottom of the instrument.
- BOND Aspirating Probe Cleaning System (Cat. No. CS9100).
- BOND Mixing Stations (Cat. No. S21.1971). Replace every month.
- □ BDZ 9.0 or above versions.

## ${igvee}$ Reagents/Materials required from ACD for RNAscope

- RNAscope<sup>®</sup> 2.5 LS Reagent Kit BROWN (Cat. No. 322100) or RNAscope 2.5 LS Reagent Kit RED (Cat. No. 322150). Contains all the detection and pretreatment reagents needed to run the RNAscope assay on the Leica BOND RX, except the RNA-specific probes.
- □ RNAscope<sup>®</sup> 2.5 LS Positive Control Probe targeting common housekeeping gene to help qualify the samples and interpret the results (for Human Hs UBC -312028, Hs PPIB-313908 or Hs POLR2A-310458; for Mouse Mm Ubc-310778, Mm Ppib-313918, or Mm Polr2a-312478).



- □ RNAscope<sup>®</sup> 2.5 LS Negative Control Probe targeting bacterial gene dapB gene to control for background noise and to help interpret assay results (Cat. No. 312038).
- □ RNAscope<sup>®</sup> 2.5 LS Target Probes targeting specific RNAs of interest.
- □ RNAscope<sup>®</sup> Control Slides Human Cell Pellet (Cat. No. 310045) or Mouse 3T3 Cell Pellet (Cat. No. 310023).
- □ Ecomount (for LS Red Assay. Ecomount Mounting media is required; do not use any other mounting media
- □ Software protocols created for each probe (workaround). Please ask FAS for the most appropriate protocols for the RNAscope® Assay.

## **Reagents/Materials provided by Researcher**

- □ Superfrost<sup>™</sup> Plus slides (Fisher Scientific): Superfrost Plus slides are required. Other slide types may result in tissue detachment.
- □ Cytoseal XYL mounting media:
  - Use a xylene-based mounting media (such as CytoSeal XYL) with the RNAscope<sup>®</sup> 2.5 LS-Brown Assay.
- □ Fresh reagents (e.g. ethanol and xylene)
- □ Fresh 10% NBF (neutral-buffered formalin)
- □ Tissue-Tek<sup>®</sup> slide rack and staining dishes
- □ Hotplate, drying oven, water bath, thermometer, and microscope
- □ Paraffin wax, microtome, and fume hood

**Note**: Always refer to the latest version of the user manuals for the complete set of materials required to run the RNAscope<sup>®</sup> Assay available at **https://acdbio.com/technical-support/user-manuals**.

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