

AUTOMATED ASSAY: RNAscope® 2.5 LS Duplex Automated Assay on Leica Biosystems' BOND RX System

CHK 47-001



Reagents/Materials required from Leica Biosystems

- BOND Polymer Refine Detection (DAB and Red) and Hematoxylin. These kits (Cat. Nos. DS9800 and DS9390) contain prefilled DAB and Red, and Hematoxylin reagents.
- BOND Open Containers. Fill these containers (Cat. No. Op309700) with reagents from the RNAscope LS DUPLEX Reagent Kit.
- BOND Universal Covertiles. Cat. No. S21.2001.
- BOND Dewax Solution. Place solution (Cat. No. AR9222) 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. Dilute solution (Cat. No. AR9590) 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.
- BOND DAB Enhancer 30ml Cat. No. AR9432
- BDZ 11.0 software



Reagents/Materials required from ACD for RNAscope

- RNAscope 2.5 LS Duplex Reagent Kit – (Cat. No. 322440). Contains all the detection and pretreatment reagents needed to run the RNAscope assay on the Leica BOND RX, except the RNA-specific probes.
- RNAscope 2.5 LS Duplex Positive Control Probe targeting common housekeeping genes to help qualify your samples and interpret your results (for Human PPIB-C1/Polr2A C2 Cat No. 320748 for Mouse PPIB-C1/Polr2A-C2 Cat No. 320768)
- RNAscope 2.5 LS Duplex Negative Control Probe targeting bacterial gene dapB gene to control for background noise and to help interpret assay results (DapB C1/DapB C2. Cat. No. 312758).
- RNAscope 2.5 LS Target Probes targeting specific RNAs of interest in Channel 1 and Channel 2

CHECKLIST

- RNAscope Control Slides – Human Cell Pellet Cat. No. 310045, or Mouse 3T3 Cell Pellet Cat. No. 310023.
- Software protocols created for each probe (workaround)



Reagents/Materials provided by Researcher

- Superfrost® Plus slides required to run the slides.
- Fresh reagents (e.g. ethanol and xylene).
- Fresh 10% NBF (neutral-buffered formalin).
- Tissue-Tek® slide rack and staining dishes.
- EcoMount or PERTEX®
- Hotplate, drying oven, water bath, thermometer, microscope, etc.
- Paraffin wax, microtome, fume hood.

Note: Always refer to the latest version of the user manuals for the complete set of materials required to run the RNAscope assay available at <http://www.acdbio.com/technical-support/user-manuals>.

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