

Figure 1: The new integrated Co-detection workflow for simultaneous RNA and protein detection

ACD's new Co-detection Kits will allow researchers to simultaneously examine cell-type specific gene expression and identify cellular sources of secreted proteins. The new workflow will allow inclusion of wider range of antibodies to be combined with RNA ISH enabling researchers to acquire more data and conserve precious samples.

KEY APPLICATIONS

Combining RNA and protein enables researchers to:

- Detect pathogens and host cell markers
- Detect non-coding RNA in target cells
- Identify cellular source of secreted proteins
- Enable detection of additional targets such as splice variants, highly homologous transcripts in specific cell types
- Visualize cell margin and RNA targets
- Correlate RNA-protein expression
- Validate antibody specificity

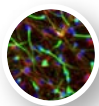
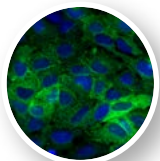
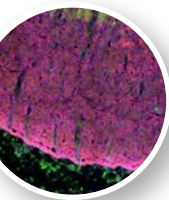
ASSAY COMPATIBILITY AND ORDERING INFORMATION

RNA-Protein Co-detection Ancillary Kit, Cat No. 323180
To be used with:

- RNAscope 2.5 HD Assay- RED
- BaseScope v2 RED Assay
- RNAscope Multiplex Fluorescent v2 Assay

Co-detection Antibody Diluent, Cat No. 323160
To be used with:

- RNAscope 2.5 LS Assay - RED
- BaseScope v2 LS Assay
- RNAscope LS Multiplex Fluorescent Assay



Co-detection of mRNA and protein using RNAscope ISH and IF

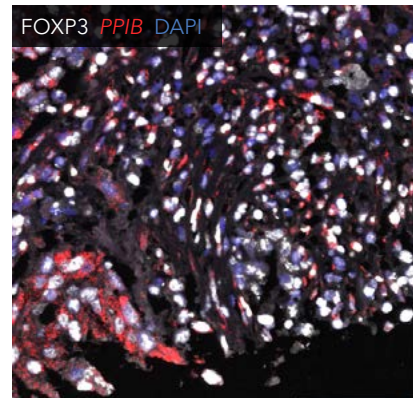


Figure 2: FOXP3 protein visualized with *PPIB* mRNA

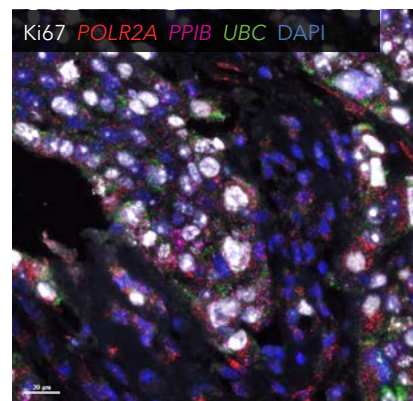


Figure 3: Ki67 protein visualized with *POLR2A*, *PPIB* and *UBC* mRNA

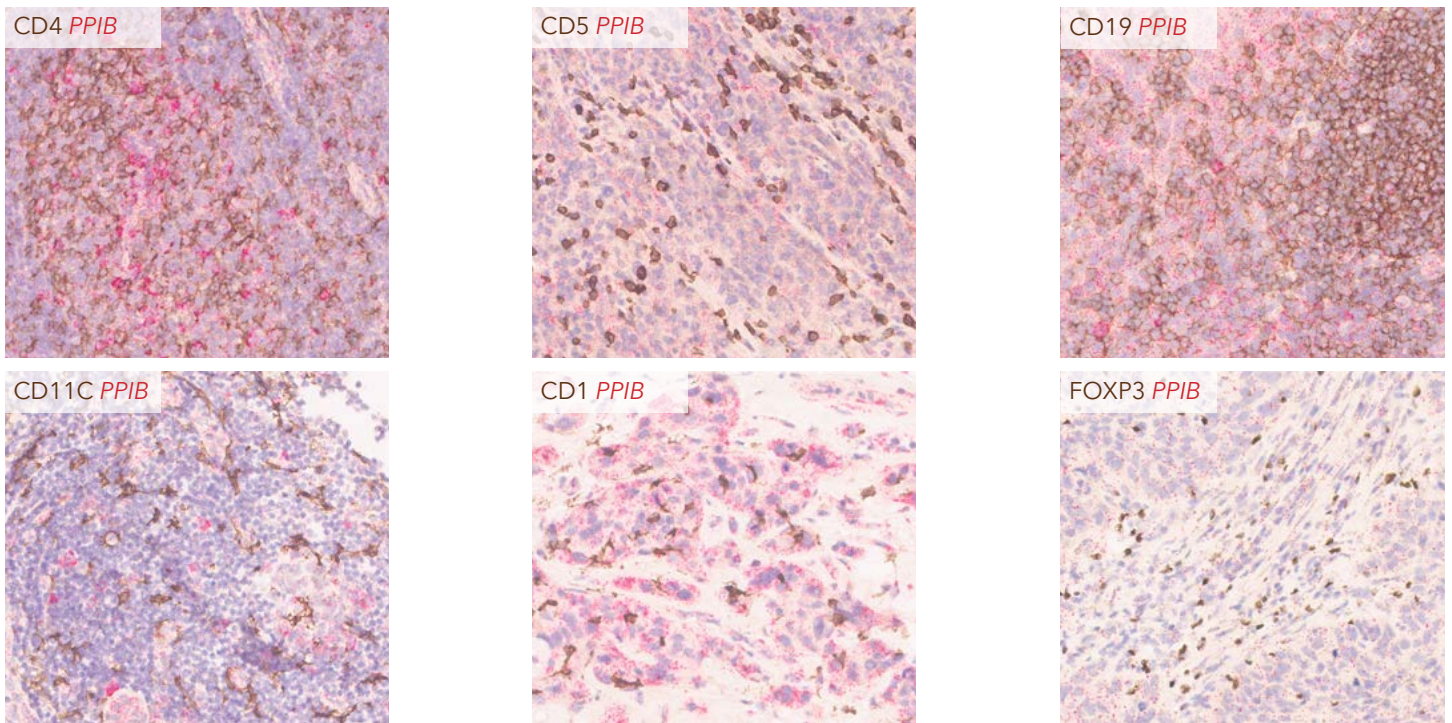


Figure 4: Detection of protein markers in combination with *PPIB* mRNA using the RNAscope Red assay with brown chromogen

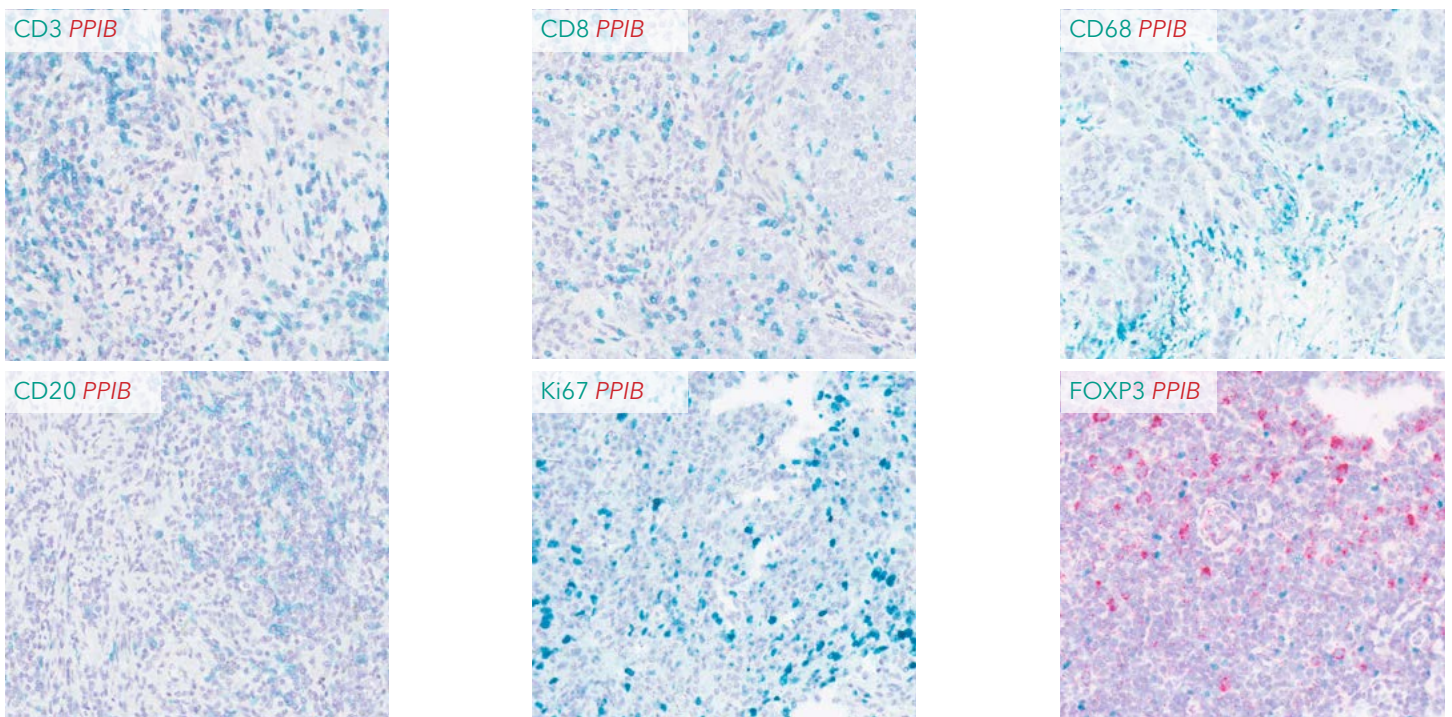


Figure 5: Detection of protein markers in combination with *PPIB* mRNA using the RNAscope Red assay with green chromogen