POLYVIEW® PLUS Universal Tyramide Kit (SEEBRIGHT® Aqua 431)

Polymer-based TSA detection kit that amplifies weak signals from low-expressing targets by 10–100x over conventional IF. Universal HRP reagent detects both mouse and rabbit primary antibodies. Includes Antibody Stripping Buffer for sequential multiplex IHC, ISH, and combined ISH/IHC — up to 6 SEEBRIGHT® Dye-Tyramide colors + DAPI on a single FFPE slide.

The POLYVIEW® PLUS Universal Tyramide Kit is a tyramide signal amplification (TSA) system designed for highly sensitive immunofluorescence (IF), immunohistochemistry (IHC) and *in situ* hybridization (ISH) detection of low-to-moderate-abundance targets. The system combines polymer-based HRP-conjugated secondary detection with tyramide-mediated covalent deposition of fluorescent dyes, delivering significantly enhanced sensitivity compared to conventional detection methods. POLYVIEW® PLUS Universal Tyramide Kit contains POLYVIEW® PLUS Universal HRP Reagent that has been developed by directly labeling anti-mouse and anti-rabbit immunoglobulins with enzymes using a proprietary tandem hyper-labelling technology in a ready-to-use format. This kit includes SEEBRIGHT® Aqua 431 Dye-Tyramide (Ex/Em: 431/480 nm), which produces a Light Blue fluorescent signal upon HRP-catalyzed covalent deposition at the antigen site. The included 1X Antibody Stripping Buffer enables sequential multiplex staining — strip and reprobe the same tissue section with up to 6 different markers in a single day.

Tyramide Signal Amplification (TSA) is a powerful enzyme-mediated detection method that utilizes horseradish peroxidase (HRP) to catalyze the deposition and covalent binding of tyramide-conjugated fluorophores directly at the site of the target antigen or nucleic acid. This covalent bond enables sequential rounds of antibody stripping and reprobing on the same tissue section without loss of previously deposited signal — the foundation of multiplex IF/IHC. The POLYVIEW® PLUS system combines a proprietary polymer-HRP secondary reagent with SEEBRIGHT® Dye-Tyramide fluorophores. The polymer backbone directly labels anti-mouse and anti-rabbit immunoglobulins with HRP using Enzo's proprietary tandem hyper-labelling technology, providing significantly higher signal-to-noise ratios compared to traditional streptavidin-biotin detection systems. Six spectrally distinct SEEBRIGHT® Dye-Tyramide colors are available (Aqua 431, Green 488, Yellow 532, Gold 550, Red 594, Deep Red 650), enabling up to 6-plex detection combined with DAPI nuclear counterstain for a total of 7 channels on a single tissue section.

Ordering Information

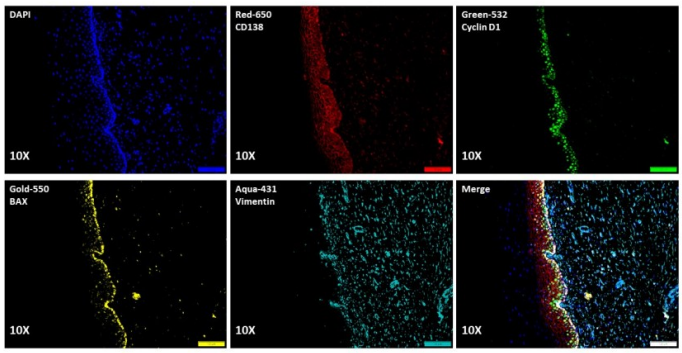
Order Online »

ENZ-KIT265-150	150Reactions

- **Ultrasensitive TSA Detection** — HRP-catalyzed covalent deposition of fluorescent tyramide for detection of low-to-moderate-abundance targets
- **Up to 6-plex Multiplex** — Sequential antibody stripping and reprobing on a single FFPE tissue section; 6 colors + DAPI = 7 channels
- **Universal HRP Polymer** — Detects both mouse and rabbit primary antibodies with a single secondary reagent using proprietary tandem hyper-labelling technology
- **Non-Biotinylated System** — Polymer-based detection eliminates endogenous biotin interference common in streptavidin-biotin systems
- **Antibody Stripping Buffer Included** — Gentle yet effective removal of primary and secondary antibodies between rounds; covalently deposited tyramide signal is retained
- **FFPE & Fixed Cell Compatible** — Optimized for formalin-fixed paraffin-embedded tissues; also works on fixed cells
- **Combined ISH/IHC Multiplex** — Compatible with AMPIVIEW® RNA Probes for simultaneous

Manuals, SDS & CofA

View Online »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Green-532
Cyclin D1
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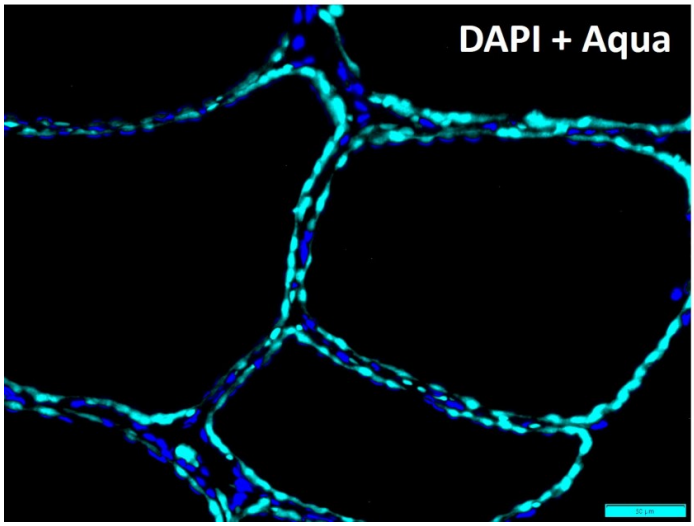
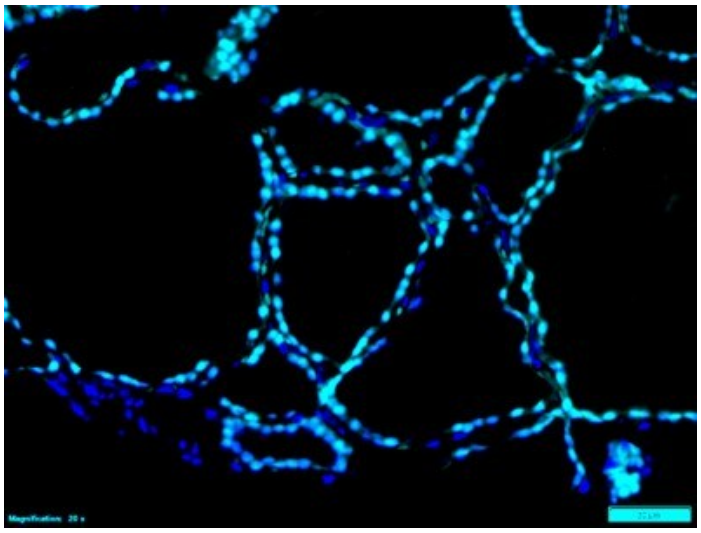
Gold-550
BAX
10X
Aqua-431
Vimentin
10X
Merge
10X


DAPI + Aqua



Handling & Storage

Use/Stability Upon receipt, store all of the kit components at 2°C to 8°C. Do not freeze. Follow storage instructions provided with the product. These products are stable under these conditions up to the expiration date indicated in the vial label.

Handling Allow all components to reach room temperature (20-30°C) before beginning the test procedure. 1X Antibody Stripping Buffer may become turbid when stored in the refrigerator. Allow it to equilibrate to room temperature before starting the assay.

Short Term Storage 2–8°C

Long Term Storage 2–8°C

Shipping Cold Pack

Regulatory Status

RUO - Research Use Only

Product Details

Application Fluorescent detection, IF, IHC, ISH, Multiplexing (in situ hybridization)

Contents

1 x 45 mL 1X TSA Reaction Buffer
1 x 15 mL POLYVIEW® PLUS Universal HRP Reagent
1 x 15 mL 1X Antibody Stripping Buffer
1 x 150 µL 30% Hydrogen Peroxide Solution
1 x 150 µL SEEBRIGHT® Aqua 431 Dye-Tyramide Solution

Disclaimer For Research Use Only. Not for use in diagnostic procedures.

Quantity 150 reactions