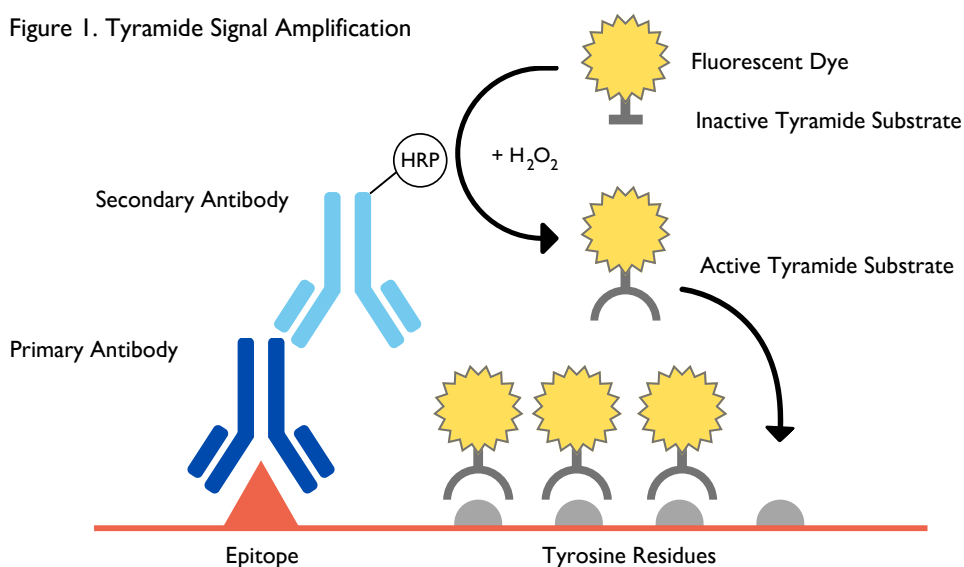


Bioss Multiplex Fluorescent IHC Staining Kit

Multiple Protein Detection with Tyramide Signal Amplification (TSA)

Bioss Multiplex Fluorescent IHC Staining Kit utilizes TSA technology to amplify fluorescence signals for protein labeling. HRP catalyzes the conversion of a fluorescence-labeled tyramide substrate into an active form in the presence of hydrogen peroxide, which covalently binds to tyrosine residues near HRP. This concentrates the fluorescent label at the protein of interest, **enhancing fluorescence signal and detection sensitivity**.

Figure 1. Tyramide Signal Amplification



Kit Components, *Catalog No. IHCT003*

Each 100 test size kit includes the following **ready-to-use reagents**:

- ✓ AbBy Fluor® 520 Tyramide, 5ml
- ✓ AbBy Fluor® 570 Tyramide, 5ml
- ✓ AbBy Fluor® 620 Tyramide, 5ml
- ✓ AbBy Fluor® 690 Tyramide, 5ml
- ✓ TSA+ Enhancer, 4 x 10 µL

AbBy Fluor® is
Bioss' brand of
fluorophores

One type of primary antibody is targeted in each fluorescent staining cycle, **ensuring specificity** and **mitigating concerns for cross-reactions** between different antibodies. The removal of antibodies before each staining cycle enables the use of primary antibodies from the same species in the same samples. Moreover, the covalently bonded tyramide remains intact, allowing for the sequential staining of **multiple proteins in a single tissue sample**.

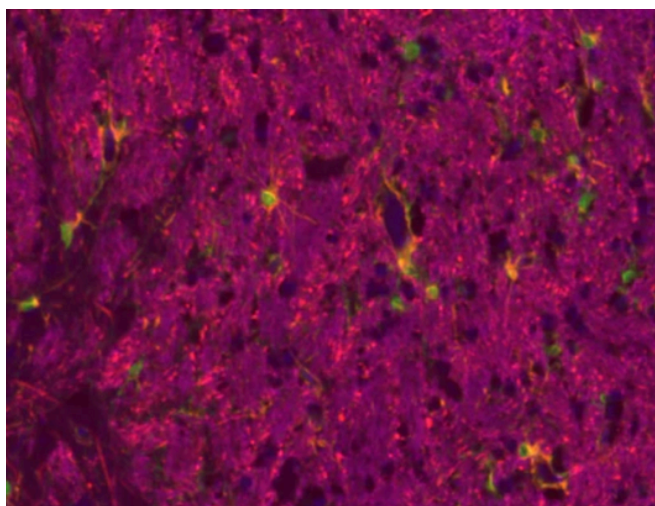


Figure 2. Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using **IHCT003 (Multiplex Fluorescent IHC Staining Kit)**.

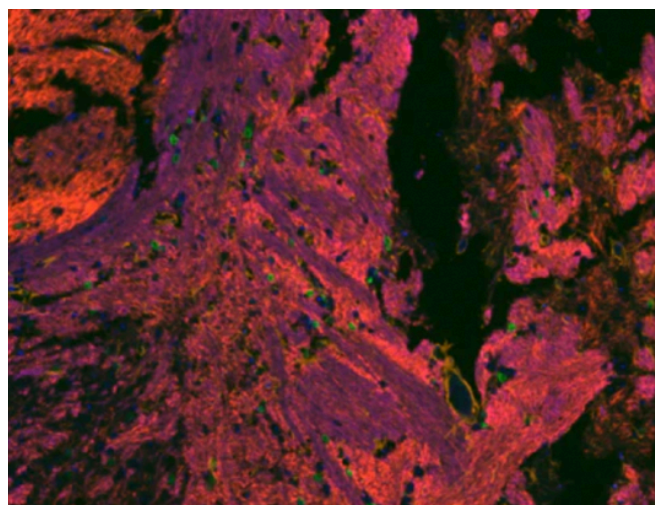


Figure 3. Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using **IHCT003 (Multiplex Fluorescent IHC Staining Kit)**.

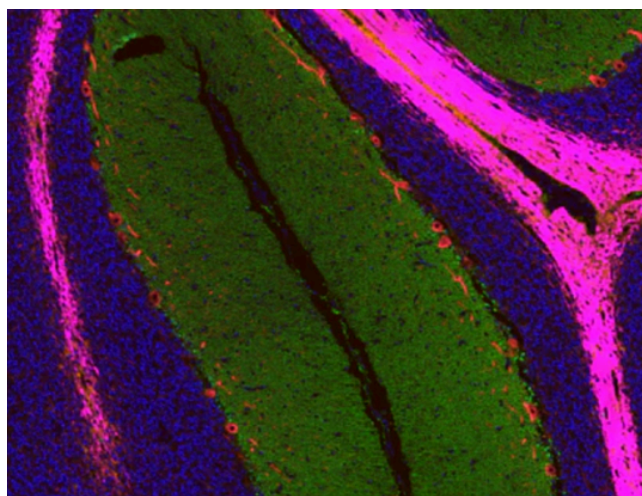


Figure 4. Immunohistochemical analysis of paraffin-embedded human brain tissue slide using **IHCT003 (Multiplex Fluorescent IHC Staining Kit)**.

For more information, please visit Biossusa.com.