# ab326080 – Tyramide (TSA)/Styramide (PSA) Optimized Reaction Buffer

For research use only - not intended for diagnostic use.

## Materials Supplied

| Item | Quantity | Storage Condition |
|---|---|---|
| TSA/PSA Buffer | 100 mL | 4°C |
| Stabilized 3% Hydrogen peroxide | 100 µL | 4°C |

## Protocol summary

1. Fix/permeabilize/block cells or tissue
2. Add primary antibody in blocking buffer
3. Add HRP-conjugated secondary antibody
4. Prepare Styramide (PSA) or Tyramide (TSA) working solution and apply in cells or tissue for 5-10 minutes at room temperature

## Preparation of Stock Solutions

Unless otherwise noted, all unused stock solutions should be divided into single-use aliquots and stored at -20 °C after preparation. Avoid repeated freeze-thaw cycles

**Styramide (PSA) stock solution (100X):**
Add 100 µL of DMSO into a vial of iFluor® dye-labeled Styramide conjugate (for example: ab326081, ab326082, ab326083, ab326084 and ab326085) to make 100X Styramide stock solution.

**Note:** Make single-use aliquots, and store unused 100X stock solution at 2-8 °C in a dark place and avoid repeat freeze-thaw cycles.

**Hydrogen peroxide stock solution:**
Add 10 µL of 3% hydrogen peroxide to 90 µL of ddH2O.

**Note:** Prepare the 100X H2O2 solution fresh on the day of use.

## Preparation of Working Solutions:

**Styramide (PSA) working solution (1X)**:
Every 1 mL of PSA working solution requires 1 mL TSA/PSA buffer, 10 µL of Styramide stock solution, and 10 µL of H2O2 stock solution.

**Note:** 1 mL is enough for 10 tests based on 100 µL of Styramide working solution needed per coverslip or per well in a 96-well microplate.

**Note:** The Styramide working solution must be used within 2 hours after preparation and avoid direct exposure to light.

## Technical Support

**For technical support contact information, visit:**
https://www.abcam.com/en-us/contact-us
https://www.abcam.cn/contact-us (China)
https://www.abcam.co.jp/contact-us (Japan)


Version 1 | Last updated 16 March 2026