

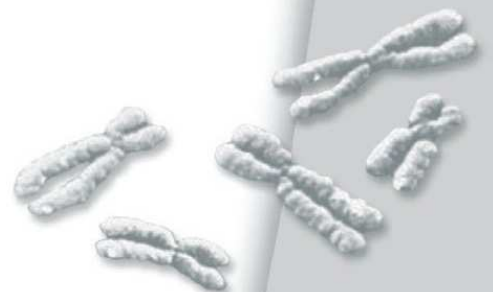
*ZytoFast*  
AP-Streptavidin Detection Kit

REF T-1006-40

Σ 40

For the detection of  
biotin-labeled *ZytoFast* CISH probes with alkaline  
phosphatase and NBT/BCIP

For research use only



# 1. Scope of Application

This product is designed for research purposes only and not for use in diagnostic applications

The ZytoFast AP-Streptavidin Detection Kit is designed to be used for the detection of any separately available biotin-labeled *ZytoFast* CISH probe in either formalin-fixed, paraffin-embedded tissue or cell samples by chromogenic *in situ* hybridization (CISH).

Duplex formation of the biotin-labeled probe can be visualized using AP-conjugated streptavidin. The enzymatic reaction of NBT/BCIP (Nitro blue tetrazolium chloride/5-Bromo-4-chloro-3-indolyl phosphate) leads to the formation of strong blue-violet signals that can be visualized by light microscopy at a 10-20x dry lens.

# 2. Safety Precautions and Disposal

- ✓ Read the operating instructions prior to use!
- ✓ Do not use the reagents after the expiry date has been reached!
- ✓ Avoid any cross-contamination and micro-bacterial contamination of the reagents!
- ✓ Avoid any direct contact with the reagents. Take appropriate protective measures (use disposable gloves, protective glasses, and lab garments)!
- ✓ If reagents come into contact with skin, rinse skin immediately with copious quantities of water!
- ✓ Never pipet solutions with your mouth!
- ✓ The disposal of reagents must be carried out in accordance with local regulations!
- ✓ A material safety data sheet is available on request for the professional user!

### 3. The ZytoFast AP-Streptavidin Detection Kit

The following components are included:

Code	Component	Quantity	Container
AB9	<u>AP-Streptavidin</u>	4 ml	Dropper bottle, yellow cap
SB4	<u>NBT/BCIP</u>	4 ml	Dropper bottle, blue cap
	Instruction manual	1	

Components **(AB9)** and **(SB4)** are sufficient for 40 reactions.

### 4. Storage and Shelf Life

The components must be stored at 2...8°C. If these storage conditions are followed, the component(s) will function, without loss of performance, at least until the expiry date printed on the label

## 5. Instructions

Pre-treatment (dewaxing, proteolysis, post-fixation), hybridization and stringency washing steps should be carried out according to the needs of the user.

**1.** Apply AP-Streptavidin (AB9) dropwise (3 drops per slide) to the slides and incubate for 30 min at 37°C in a humidity chamber

**2.** Wash 2x 2 min in 1x Wash Buffer TBS (prepared using 20x Wash Buffer TBS (ZytoVision GmbH)) and 1x 2 min in deionized or distilled water

**3.** Apply NBT/BCIP (SB4) dropwise (3 drops per slide) to the slides and incubate for 20-40 min at 37°C in a humidity chamber

*It is recommended that you check the color development in intervals of approx. 5-10 min using a microscope.*

**4.** Wash 3x 2 min in deionized or distilled water

**5.** Cover the sections

*We recommend that the sections should be embedded in an aqueous embedding medium.*

**5.** Evaluation of the sample material is carried out by light microscopy

The ZytoFast AP-Streptavidin Detection Kit procedure causes strong blue-violet colored precipitates within the cells targeted by the *ZytoFast* CISH probe, which can be clearly distinguished from the background.

**Our experts are available to answer your questions.**

*As of: January 1, 2010 (4.5)*

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