

ZytoFast
AP-Streptavidin Detection Kit

REF T-1006-40

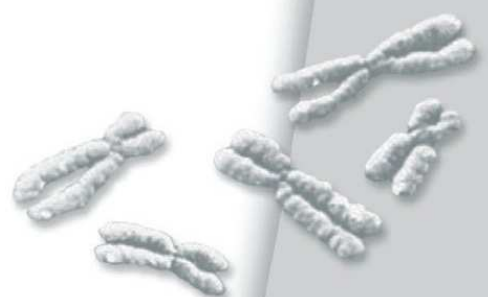
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For the detection of
biotin-labeled *ZytoFast* CISH probes with alkaline
phosphatase and NBT/BCIP

For research use only



コスモ・バイオ株式会社



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.

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