



Product Information Sheet

Peroxidase Conjugated Goat IgG SABC Kit

Catalog No. SA2003

Size 1 kit

Product Type

Concentrated (Need dilution)

Storage

4°C for one year. Avoid freezing.

Tested Applications

Immunohistochemical analysis of paraffin-embedded sections, IHC(P); Immunohistochemical analysis of frozen-embedded sections, IHC(F); Immunocytochemistry, IC.

Recommended Dilution Factors

IHC(P): 1:50-200 IHC(F): 1:50-200 IC: 1:50-200

Optimal dilutions should be determined by end users.

Introduction

SABC (StreptAvidin-Biotin Complex) is specially designed for displaying the distribution of antigens in tissues and cells in immunochemistry and other immunodetection analyses. Streptavidin is a 53,000 dalton protein purified from the bacterium *Streptomyces avidinii*. Streptavidin has extraordinarily strong affinity to biotin molecules. The dissociation constant (K_d) of the biotin-streptavidin complex is on the order of ~10⁻¹⁵ mol/L, a million times higher than the typical affinity between antigens and their antibodies. Streptavidin has very low non-specific binding to tissues and cells, due to its nearly neutral isoelectric point (IP=6.0~6.5). Therefore, immunohistochemical analyses based on streptavidin-biotin complex has extremely low background. Furthermore, this kit has high sensitivity because each complex it generates has a large number of peroxidase and streptavidin molecules. In brief, SABC offers high specificity, low background and ease-of-use.

Kit Components

- 1. Normal rabbit serum blocking reagent: 10x, 10ml, for the block of tissue sections.
- Biotinylated Secondary Antibody (Rabbit Anti-goat IgG): 100~200x, 1ml (2mg/ml). Affinity purified antibody, labeled with "long-arm" biotin (Biotinamidohexanoic acid N-hydroxysuccinimide ester, CAS# 72040-63-2).
- SABC-POD (Peroxidase conjugated streptavidin): 100~200x, 1ml (2mg/ml). Manufactured by A proprietary method, the complex is very stable and offers superior amplification of the antigen signals.
- 4. Three drop bottles (For dilution use).

Material Required But Not Provided

- 1. APES or POLY-L-LYSINE.
- 0.02M PBS (pH 7.2~7.6): 8.5g sodium chloride, 2.8g anhydrous Na₂HPO₄ and 0.4g anhydrous NaH₂PO₄ in 1000ml of distilled water. (The weight should be adjusted accordingly if hydrous phosphates are used.)
- 3. 0.01 M Citrate Buffer: 3g sodium citrate dihydrate ($C_6H_5Na_3O_7\cdot 2H_2O$) and 0.4g citric acid monohydrate ($C_6H_8O_7\cdot H_2O$) in 1000ml of distilled water.
- 4. DAB Chromogenic Kit (Catalog number: AR1022 or AR1025).
- 5. 0.1% trypsinase or the compound digest solution (Catalog number:

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Note

Goat IgG refers to the animal origin of the primary antibody, not the origin of the specimen. This kit must be used on primary antibodies from goat.