For life science research only.
Not for use in diagnostic procedures.

Anti-Digoxigenin-Fluorescein, Fab fragments
from sheep

Version: 02
Content Version: December 2020

Lyophilized, stabilized

Cat. No. 11 207 741 910 200 µg

Store the conjugate at +2 to +8°C.

1. General Information

1.1. Contents

Vial / Bottle	Label	Content
1	Anti-Digoxigenin-Fluorescein, Fab fragments	1 vial, 200 µg

1.2. Storage and Stability

Storage Conditions (Product)

When stored at +2 to +8°C, the conjugate is stable through the expiry date printed on the label.

Vial / Bottle	Label	Storage
1	Anti-Digoxigenin-Fluorescein, Fab fragments	Store at +2 to +8°C. ⚠ ***Store protected from light.***

Reconstitution

Dissolve the lyophilizate in 1 ml double-distilled water; this results in a concentration of 200 µg conjugate/ml.
The reconstituted antibody solution is stable for up to 2 months at +2 to +8°C, when stored protected from light. The solution can also be stored in aliquots at −15 to −25°C.
⚠ ***Avoid repeated freezing and thawing.***
⚠ ***This stock solution should then be diluted shortly before use.***

1.3. Application

The conjugates can be used for the detection of digoxigenin-labeled compounds.
Applications include:
- Fluorescent *in situ* hybridizations (FISH)
- DIG-labeled sugars in glycoconjugates
- Immunohistochemistry

2. How to Use this Product

2.1. Before you Begin

Safety Information

Laboratory procedures

- Handle all samples as if potentially infectious, using safe laboratory procedures. As the sensitivity and titer of potential pathogens in the sample material varies, the operator must optimize pathogen inactivation by the Lysis / Binding Buffer or take appropriate measures, according to local safety regulations.
- Do not eat, drink or smoke in the laboratory work area.
- Do not pipette by mouth.
- Wear protective disposable gloves, laboratory coats and eye protection, when handling samples and kit reagents.
- Wash hands thoroughly after handling samples and reagents.

Waste handling

- Discard unused reagents and waste in accordance with country, federal, state, and local regulations.
- Safety Data Sheets (SDS) are available online on dialog.roche.com, or upon request from the local Roche office.

Working Solution

Dilute the reconstituted stock solution (200 µg/ml) in PBS, 0.5% bovine serum albumin (w/v), pH 7.4. If necessary 1% Blocking Reagent* (w/v), 1 to 5% heat inactivated fetal calf serum (FCS) (v/v), or normal sheep serum can be added to the conjugate dilution buffer for reduction of nonspecific binding. If this produces no effect, the pH should be raised to 8.5 to 9.0.

2.2. Parameters

Emission

Emission $_{max}$: 523 nm (pH 8.0)

Excitation Maximum

Excitation $_{max}$: 494 nm

Working Concentration

Handling Instructions

Centrifuge the antibody for 5 minutes at 10,000 rpm prior to each use. Always pipette the necessary amount carefully from the surface.

Preparation of Antibody Dilution

The working concentration of antibody depends on the application. The following concentrations should be taken as a guideline:

Application	Dilution	Concentration [µg/ml]	Sufficient for
Fluorescent *in situ* hybridizations (FISH)	1:200	1	Up to 4,000 sections
DIG-labeled sugars in glycoconjugates	1:4 – 1:10	50 – 20	80 – 200 blots
Immunohistochemistry	1:4 – 1:10	50 – 20	80 – 200 sections

3. Additional Information on this Product

3.1. Test Principle

Antibody Production

After immunization with digoxigenin, the sheep IgG was purified by ion-exchange chromatography and the specific IgG was isolated by immunosorption. The Fab fragments obtained by papain digestion were purified by gel filtration, conjugated with 5(6)-Carboxyfluorescein N-hydroxysuccinimide ester, and stabilized in PBS (phosphate buffered saline), 0.5% bovine serum albumin (w/v), pH 7.4.

The molar ratio of fluorescein:protein is between 3 and 4.

Antibody Type

Fab fragments from an anti-digoxigenin antibody from sheep, conjugated with 5(6)-Carboxyfluorescein N-hydroxysuccinimide ester (FLUOS).

4. Supplementary Information

4.1. Conventions

To make information consistent and easier to read, the following text conventions and symbols are used in this document to highlight important information:

Text convention and symbols	
Information Note: Additional information about the current topic or procedure.	
Important Note: Information critical to the success of the current procedure or use of the product.	
① ② ③ etc.	Stages in a process that usually occur in the order listed.
❶ ❷ ❸ etc.	Steps in a procedure that must be performed in the order listed.
* (Asterisk)	The Asterisk denotes a product available from Roche Diagnostics.

4.2. Changes to previous version

Layout changes.
Editorial changes.
Update to include new safety Information to ensure handling according controlled conditions.

4.3. Ordering Information

Product	Pack Size	Cat. No.
Reagents, kits		
Blocking Reagent	50 g	11 096 176 001

4.4. Trademarks

All product names and trademarks are the property of their respective owners.

4.5. License Disclaimer

For patent license limitations for individual products please refer to:
List of biochemical reagent products.

4.6. Regulatory Disclaimer

For life science research only. Not for use in diagnostic procedures.

4.7. Safety Data Sheet

Please follow the instructions in the Safety Data Sheet (SDS).

4.8. Contact and Support

To ask questions, solve problems, suggest enhancements or report new applications, please visit our **Online Technical Support Site**.

To call, write, fax, or email us, visit **sigma-aldrich.com**, and select your home country. Country-specific contact information will be displayed.

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