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

Anti-Digoxigenin-POD, Fab fragments
from sheep

Version: 09
Content Version: December 2020

For the detection of digoxigenin-labeled compounds
Lyophilizate, stabilized

Cat. No. 11 207 733 910 150 U

Store at +2 to +8°C.

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1. General Information

1.1. Contents

Vial / Bottle	Label	Content
1	Anti-Digoxigenin-POD, Fab fragments	1 vial, 150 U

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-POD, Fab fragments	Store at +2 to +8°C. ⚠ ***Do Not freeze.*** ⚠ ***Do not add sodium azide.***

Reconstitution

Dissolve the lyophilizate in 1 ml double-distilled water; this results in a concentration of 150 U/ml.
The reconstituted stock solution is stable at +2 to +8°C for 6 months.

1.3. Application

The conjugates can be used for the detection of digoxigenin-labeled compounds, such as:
- Digoxigenin-labeled nucleic acids
- Lectins
- Antibodies

Applications include:
- Southern blots, dot blots
- Immunoblotting
- Histochemistry
- ELISA
- In *situ* hybridization

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 (150 U/ml) of the Anti-Digoxigenin-POD in 100 mM Tris-HCl, 150 mM NaCl, pH 7.5. 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.

2.2. Parameters

Specificity

The Fab fragments react with bound digoxigenin.

Working Concentration

Working concentration of conjugate will depend on the application and substrate. The following concentrations should be taken as a guideline:

Application	Dilution	Concentration [mU/ml]	Sufficient for:
Nucleic acids on membranes (Southern blots, dot blots)	1:1,000	150	500 blots
Nucleic acids in cells and tissues (in *situ* hybridization)	1:20 – 1:100	1,500 – 7,500	400 – 2,000 in *situ* hybridizations
Sugars in glycoconjugates	1:200	750	20 blots
Immunoblotting	1:150 – 1:300	500 – 250	30 – 60 blots
Immunohistochemistry	1:300 – 1:600	500 – 250	6,000 – 12,000 sections
ELISA	1:1,000 – 1:3,000	150 – 50	5,000 – 15,000 tests

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 immunoadsorption. The Fab fragments obtained by papain digestion were conjugated with POD and stabilized in 60 mM Tris-HEPES buffer, 0.4% bovine immunoglobulin (w/v), 0.2% Germall II (w/v), pH 7.2, and lyophilized.

Antibody Type

Fab fragments from an anti-digoxigenin antibody from sheep, conjugated with horseradish peroxidase (POD).

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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