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



Anti-Digoxigenin, Fab fragments from sheep

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For the detection of digoxigenin-labeled compounds. Lyophilized immunoglobulin

Cat. No. 11 214 667 001 1 mg

Store the lyophilizate at +2 to +8°C.

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1. General Information

1.1. Contents

| Vial / Bottle | Label | Content |
|---------------|---------------------------------|---------|
| 1 | Anti-Digoxigenin, Fab fragments | 1 vial, |
| | | 1 mg |

1.2. Storage and Stability

Storage Conditions (Product)

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

| Vial / Bottle | Label | Storage |
|---------------|---------------------------------|----------------------|
| 1 | Anti-Digoxigenin, Fab fragments | Store at +2 to +8°C. |

Storage Conditions (Working Solution)

The diluted antibody is stable at +2 to +8°C for 12 hours.



Reconstitution

Dissolve the lyophilizate in 1 ml PBS (phosphate buffered saline); this results in a concentration of 1 mg Fab fragments/ml.

The reconstituted antibody solution is stable for up to 6 months at +2 to +8 $^{\circ}$ C. The solution can also be stored in aliquots at -15 to -25 $^{\circ}$ C.

Avoid repeated freezing and thawing.

1.3. Application

The antibody can be conjugated with enzymes or fluorescence dyes and is used for the detection of digoxigeninlabeled samples.

Applications include:

- In situ hybridizations
- Immunoblotting (western blotting)
- Immunohistocytochemistry
- ELISA

The fragments are not stabilized with protein and are therefore suitable for labeling purposes.

2. How to Use this Product

2.1. Parameters

Specificity

The polyclonal antibodies from sheep show 100% reactivity with digoxigenin and digoxin, but no cross-reactivity with other steroids, such as human estrogens (e.g., estradiol) or androgens (e.g., testosterone).

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

(i) The antibody concentration depends on the application and substrate used for the detection of the antibody conjugate. The following concentrations should be taken as a guideline:

| Application | Concentration [µg/ml] |
|-------------------------------|-----------------------|
| In situ hybridization | 0.2 - 0.4 |
| Immunoblotting (western blot) | 0.5 – 2 |
| Immunohistocytochemistry | 0.5 – 1 |
| ELISA | 2 - 4 |

if the antibody will be used unconjugated, an anti-sheep conjugate, light-chain specific is needed for detection.

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 and lyophilized.

Antibody Type

Fab fragments from sheep.

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. | | | |
| 1 2 3 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.

4.3. Trademarks

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

4.4. License Disclaimer

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

4.5. Regulatory Disclaimer

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

4.6. Safety Data Sheet

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

4.7. 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.