



Antibody Diluent

REF / Cat. No.: ZUC025-100 100 ml
ZUC025-500 500 ml

Instructions for use

Intended use

Antibody Diluent is developed for dilution of primary antibodies. Antibodies diluted with Antibody Diluent are primarily used in immunohistochemistry with formalin-fixed paraffin-embedded tissue sections, but also with frozen, HOPE-fixed, and cytological samples as well as in immunoblot procedures. Antibody Diluent is intended for in vitro diagnostic use.

Summary and explanation

Antibody diluents used in immunohistochemistry should protect the antibody from microbial contamination and stabilize the antibody chemically. Antibody Diluent reduces non-specific binding of antibodies to tissue sections and is therefore extremely useful in receiving background-free staining results.

Principle of the method

Immunohistochemical staining procedures often start with incubation of a blocking solution to reduce unspecific binding of primary antibody to tissue sections. This step can be omitted if the antibody used is diluted in Antibody Diluent.

Antibody Diluent

- minimises unspecific binding of the primary antibody to the tissue section,
- reduces surface tension of the antibody solution and improves spreading the reagent on the slide,
- increases microbial and chemical stability of the antibody,
- reduces adhesion of antibody to the surface of the vial,
- and minimises the danger of antibody degradation by proteolytic enzymes.

Reagent provided

REF / Cat. No. ZUC025-100
100 ml Antibody Diluent (ready-to-use)

REF / Cat. No. ZUC025-500
500 ml Antibody Diluent (ready-to-use)

Storage and handling

The solution should be stored at 2-8°C without further dilution. Do not freeze it. Under these conditions the solution is stable up to the expiry date indicated on the label. Do not use product after the expiry date.

If stored at room temperature the solution is stable for at least 10 month from the date of delivery.

A positive and a negative control have to be carried out in parallel to the test material. If you observe unusual staining or other deviations from the expected results which could possibly be caused by this reagent, please contact Zytomed Systems' technical support or your local distributor.

Precautions

Use through qualified personnel only. Wear protective clothing to avoid contact of reagents and specimens with eye, skin and mucous membranes. If reagents or specimens come in contact with sensitive area, wash with large amounts of water.

Microbial contamination of the reagent must be avoided, since otherwise non-specific staining may occur.

ProClin300 and sodium azide (NaN₃) are used for stabilisation. Reaction of sodium azide with lead or copper in drainage pipes can result in the formation of highly explosive metallic azides. Discard the antibody solution in a large volume of running water to avoid formation of deposits. A material safety data sheet (MSDS) for the pure substances is available upon request.

Quality control

We recommend carrying out a positive and a negative control with every staining run. The positive control permits the validation of appropriate processing of the sample. If the negative control has a positive result, this points to unspecific staining. Please refer to the instructions of the detection system for guidance on general quality control procedures.

Troubleshooting

If you observe unusual staining or other deviations from the expected results please read these instructions carefully, contact Zytomed Systems' technical support or your local distributor. Also refer to the instructions of the detection systems for guidance on general troubleshooting.

Expected results

During the reaction of the substrate with horse radish peroxidase or alkaline phosphatase in the presence of a chromogen, a coloured precipitate is formed at the location of the bound primary antibody. This reaction only takes place if the target antigen is existent in the tissue. The chromogen used determines the colour of the precipitate. The analysis is carried out using a light microscope.

Limitations of the procedure

Immunohistochemistry is a complex technique involving both histological and immunological detection methods. It requires a highly trained histotechnologist. Tissue processing and handling prior to immunostaining, for example variations in fixation and embedding or the inherent nature of the tissue can cause inconsistent results (Nadji and Morales, 1983). Inadequate counterstaining and mounting can influence the interpretation of the results. Zytomed Systems guarantees that the product will meet all requirements described from its shipping date until its expiry date, as long as the product is correctly stored and utilized. No additional guarantees can be given. Under no circumstances shall Zytomed System be liable for any damages arising out of the use of the reagent provided.

Performance characteristics

Zytomed Systems has conducted studies to evaluate the performance of the reagent. The product has been found to be suitable for the intended use.

Bibliography












Elias JM "Immunohistopathology – A practical Approach to Diagnosis" ASCP Press 2003
Nadji M and Morales AR Ann N.Y. Acad Sci 420:134-9, 1983

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Doc: DBE_ZUC025_100_500

Explanation of the symbols on the product label:

	Bestellnummer Catalog Number Reference du catalogue		Verwendbar bis Use By Utiliser jusque		Gebrauchsanweisung beachten Consult Instructions for use Consulter les instructions d'utilisation
	Chargenbezeichnung Batch Code Code du lot		Lagerungstemperatur Temperature Limitation Limites de température		Nur für Forschungszwecke For Research Use Only Pour la recherche uniquement
	In vitro Diagnostikum In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro		Achtung/Gefahr Warning/Danger Attention/Danger		Hersteller / Manufacturer / Fabricant Zytomed Systems GmbH Anhalterstraße 16 14163 Berlin, Germany Tel: (+49) 30-804 984 990 www.zytomed-systems.de
	Achtung/Gefahr Warning/Danger Attention/Danger		Achtung Warning Attention		