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Monosan® Permanent AP Red Kit

REF / Cat. No.: **MON-APP185 1 Kit (125ml / 1250 Tests)**
MON-APP186 1 Kit (500ml / 5000 Tests)

Instructions for use

Intended use

Monosan® Permanent AP Red Kit is developed for immunohistochemical and *in situ*-hybridisation staining procedures with alkaline phosphatase. Monosan® Permanent AP Red leads to the formation of a magenta-red precipitate at the location of the target antigen or target nucleic acid. The precipitate is insoluble in aqueous and organic solvents and can be observed by light or fluorescence microscopy.

Monosan® Permanent AP Red Kit is for research use only, not for drug, diagnostic or other use.

Reagents provided

REF / Cat. No. **MON-APP185**
 125 ml **Permanent AP Red Buffer**
 2 ml **Permanent AP Red Chromogen**
 1 **Dilution Vial**

REF / Cat. No. **MON-APP186**
 500 ml **Permanent AP Red Buffer**
 8 ml **Permanent AP Red Chromogen**
 1 **Dilution Vial**

Precautions

Use by qualified personnel only. Wear protective clothing to avoid contact of reagents or specimen with eye, skin or mucous membrane. In case of a reagent or specimen coming into contact with a sensitive area, wash the area with large amounts of water.

Microbial contamination of the reagents must be avoided, since otherwise non-specific staining might appear.

ProClin950, used for stabilisation, is not considered hazardous material in the concentrations used. A material safety data sheet (MSDS) for the pure substance is available upon request.

Reagent preparation (Preparation of the working solution)

- 1) Monosan® Permanent AP Red Buffer and Chromogen should be at room temperature before use.
- 2) Pipette 2.5 ml AP Red Buffer into the provided dilution vial.
- 3) Add 1 drop of Monosan® Permanent AP Red Chromogen. Mix thoroughly.
- 4) The solution is stable for about 60 minutes. Preparation should be done directly before use.

If you want to prepare other quantities of the working solution, please refer to the examples in this table:

Monosan® Permanent AP Red Buffer	Monosan® Permanent AP Red Chromogen	Monosan® Permanent AP Red Buffer	Monosan® Permanent AP Red Chromogen
0,5 mL	8 µL	5 mL	80 µL
1 mL	16 µL	10 mL	160 µL
2 mL	32 µL	15 mL	240 µL
3 mL	48 µL	20 mL	320 µL
4 mL	64 µL	25 mL	400 µL

Staining procedure

- 1) Rinse the slide with wash buffer after the previous incubation step.
- 2) Apply freshly prepared Monosan® Permanent AP Red working solution onto the slide. Incubate for 10 minutes.
- 3) Rinse with distilled H₂O. Counterstain with haematoxylin for about 30 seconds up to 5 minutes (depending on the desired staining intensity).

- 4) Rinse with distilled H₂O.
 - 5) Blueing in tap water for at least 5 minutes.
 - 6) Dehydrate through a graded series of ethanol and clear in xylene. Mount with a permanent mounting medium.
- Note: It is also possible to mount Monosan[®] Permanent AP Red with aqueous mounting media.

Storage and Handling

The solutions should be stored at 2-8°C without further dilution. Please store the reagents in a dark place and do not freeze them. Under these conditions the solutions are stable up to the expiry date indicated on the label. Do not use product after the expiry date. The working solution prepared is stable for about 60 minutes and should therefore be used directly after preparation. Excess working solution should be discarded.

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 the kit reagents please contact Monosans' technical support or your local distributor.

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 Monosans' 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 alkaline phosphatase in presence of the chromogen Monosan[®] Permanent AP Red, a magenta-red precipitate is formed at the location of the target antigen or nucleic acid. The precipitate is insoluble in aqueous and organic solvents and can be observed by light or fluorescence microscopy (Texas Red filter).

Limitations of the procedure

Immunohistochemistry is a complex method in which histological as well as immunological detection methods are combined. 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).

In some tissues endogenous alkaline phosphatase activity may cause non-specific staining. However, neither intestinal nor placental alkaline phosphatase can be blocked with levamisole. Therefore, tissues of this origin should be stained with peroxidase detection systems (i.e. MON-APP116).

A higher sensitivity can be obtained when a second chromogenic substrate step is used (i. e. 2 x 10 min Monosan[®] Permanent AP Red).

Background staining due to endogenous biotin can be blocked through an avidin-biotin blocking step prior to the primary antibody incubation step. Inadequate counterstaining and mounting can influence the interpretation of the results.

A longer exposure to absolute ethanol can result in decreasing staining intensity.

Monosan[®] 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 Monosan[®] be liable for any damages arising out of the use of the reagent provided.

Performance characteristics

Monosan[®] has conducted studies to evaluate the performance of the kit reagents in combination with standard detection systems. 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

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

Explanation of the symbols on the product label:

	Bestellnummer Catalog Number Reference du catalogue		Chargenbezeichnung Batch Code Code du lot		Reizend Irritant Irritant
	Gesundheitsschädlich Harmful Nocif		Giftig Toxic Toxique	 Hersteller / Manufacturer / Fabricant	
	Verwendbar bis Use By Utiliser jusque			Monosan [®] Frontstraat 2c 5405 PB Uden The Netherlands Tel: (+31) 413 251115 Fax: (+31) 413 266605 info@monosan.com www.monosan.com	
	Gebrauchsanweisung beachten Consult Instructions for use Consulter les instructions d'utilisation		Lagerungstemperatur Temperature Limitation Limites de température		