

Mouse anti-Desmin

Cat. No.: AIB-30014 (0.5 ml Concentrate);

AIB-30013 (6 ml Ready-to-use)

Instructions for use

Intended use

This antibody is designed for the specific localisation of Bartonella henselae (pathogen of cat scratch disease) in formalin-fixed, paraffin-embedded tissue sections. Anti-Cat Scratch Disease antibody is intended for research use only.

Specifications

Specificity: Cat Scratch Disease

Clone: H2A10

Isotype: Mouse IgG2b

Species reactivity: Bartonella henselase

Summary and Description

Bartonella henselae, formerly known as Rochalimea henselae, is a rod-shaped slightly bended gram-negative bacterium. It is a relatively small bacterium of approximately $0.3-0.5 \times 1.0-1.7 \, \mu m$ and lives facultatively intracellular. The pathogen can cause cat scratch disease in immunocompetent humans. Cat scratch disease is characterised by erythematose pustules at the location of the bacterium access, local lymph node swelling and sometimes high fever. Previous evaluations have shown specific reaction of this antibody with Bartonella henselae. Reactivities: Bartonella henselae (12 investigated microbial strains/12 positive), Bartonella quintana (11/0), Bartonella bacilliformis (2/0), Bartonella elizabethae (1/0), Bartonella grahamii (1/0), Bartonella taylorii (1/0), Bartonella vinsonii (1/0). All other evaluated spirochetes, Helicobacter pylori and mycobacterium tuberculosis were negative. With this antibody the detection of B. henselae via immunohistochemistry is quite easy and complicated silver stains according to Warthin-Starry are no longer needed.

Reagent provided

Mouse monoclonal antibody in buffer with carrier protein and preservative for stabilisation in the following formats:

Concentrate: 0.5 ml (Cat. No. AIB-30014) **Ready-to-use:** 6 ml (Cat. No. AIB-30013)

Dilution of primary antibody

Dilution of Nordic Biosites' concentrated antibody depends on the detection system used. The final working dilution must always be determined by the user. The elaboration of staining protocol should be done by an experienced specialist. For Nordic Biosites' recommendations see chapter 'Staining procedure'.

Storage and handling

The antibody should be stored at 2-8°C without furt her dilution.

Dilutions of the concentrated antibody should be done in a suitable antibody dilution buffer (e.g. BCB-20005/BCB-20006 from Nordic Biosite). The diluted antibody should be stored at 2-8°C after use. Stability of this working solution depends on various parameters and has to be confirmed by appropriate controls. The antibody provided is suitable for use until the expiry date indicated on the label, if stored at 2-8°C. Do not use product after the expiry date. Positive and negative controls should be run simultaneously with all specimens. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the antibody is suspected, contact Nordic Biosite technical support.

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. Sodium azide (NaN3), used for stabilisation, is not considered hazardous material in the concentration used. Reaction of sodium azide with lead or copper in drainage pipes can result in the formation of highly explosive metallic azides. Sodium azide should be discarded in a large volume of running water to avoid formation of deposits. Material safety data sheets (MSDS) are available upon request.

Staining procedure

Refer to the following table for conditions specifically recommended for this antibody. Also refer to detection system data sheets for guidance on specific staining protocols or other requirements.

Parameters Nordic BioSites recommendations

*Pre-treatment Heat Induced Epitope Retrieval (for example in Citrate Buffer pH 6.0 BCB-

20015/-20016) or proteolytic pre-treatment (for example with pepsin)

*Control tissue with Bartonella henselae infected tissue

*Working dilution 1:50-1:100 (for concentrates)

*Incubation time 30-60 minutes

Quality control

The recommended positive control tissue for this antibody is Bartonella henselae infected tissue. We recommend carrying out a positive and a negative control with every staining run. Please refer to the instructions of the detection system for guidance on general guality control procedures.

Troubleshooting

If you observe unusual staining or other deviations from the expected results please read these instructions carefully, refer to the instructions of the detection system for relevant information or contact your local distributor.

Expected results

This antibody stains positive on the surface of Bartonella henselae infected tissue in formalin-fixed, paraffinembedded tissue sections. Bartonella henselae is a relatively small bacterium of approximately $0.3-0.5 \times 1.0-1.7$ µm. For better contrast in immunohistochemistry we recommend staining with a red chromogen like for example AEC with peroxidase detection systems or Permanent AP Red with alkaline phosphatase detection systems. We also recommend using at least a 1000fold magnification in light microscopy.

Interpretation of the staining results is solely the responsibility of the user. Any experimental result should be confirmed by a medically established diagnostic procedure.

Limitations of the Procedure

Immunohistochemistry is a complex technique involving both histological and immunological detection methods. 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). Endogenous peroxidase, alkaline phosphatase or biotin may cause non-specific staining depending on the detection system used. Tissues containing Hepatitis B Surface Antigen (HBsAg) may give false positive results with HRP (horse radish peroxidase) detection systems (Omata et al, 1980). Inadequate counterstaining and mounting can influence the interpretation of the results. Nordic Biosite warrants that the product will meet all requirements described from its shipping date until the expiry date is reached, if the product is stored and utilised as recommended. No additional guarantees can be given. Under no circumstances shall Nordic BioSite be liable for any damages arising out of the use of the reagent provided.

Explanations of the symbols on the product label:

RE	Catalog Number Bestellnummer Reference du catalogue	LOT	Batch Code Chargenbezeichnung Code du lot	Manufacturer Nordic BioSite AB
>	Use By Verwendbar bis Utiliser jusque	IVD	In Vitro Diagnostic Medical Device In vitro Diagnostikum Dispositif médical de diagnostic in vitro	Propellervägen 4A S-183 62 Täby Sweden Tel: +46 (0)8 5444 33 40 Fax: +46 (0)8 756 94 90 info@nordicbiosite.com www.nordicbiosite.com
	Consult Instructions for use Gebrauchsanweisung beachten Consulter les instructions d'utilisation		Temperature Limitation Lagerungstemperatur Limites de température	

Performance characteristics

Nordic Biosite has conducted studies to evaluate the performance of the antibody for use with a standard detection system. The product has been found to be sensitive and specific to the antigen of interest with minimal or no cross-reactivity.

Bibliography

Wear DJ et al., Science 221:1403-1405, 1983 Brenner DJ et al., Int J Syst Bacteriol 43:777-786, 1993 Nadji M and Morales AR Ann N.Y. Acad Sci 420:134-9, 1983 Omata M et al. Am J Clin Pathol 73(5): 626-32, 1980

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\bigcap_i	Consult Instructions for use Gebrauchsanweisung beachten Consulter les instructions d'utilisation		Temperature Limitation Lagerungstemperatur Limites de température	