



## Mouse anti-CD10 (CALLA)

**Cat. No.: AIB-30290 (1 ml Concentrate); AIB-30291(0.5 ml Concentrate);  
AIB-30289 (6 ml Ready-to-use)**

### Instructions for use

#### Intended use

This antibody is designed for the specific localisation of CD10 in formalin-fixed, paraffin-embedded tissue sections and in frozen sections. Anti-CD10 antibody is intended for in vitro diagnostic use.

#### Specifications

|                            |  |
|----------------------------|--|
| <b>Specificity:</b>        | CD10   |
| <b>Immunogen:</b>          | Recombinant protein according to the external domain of human CD10 |
| <b>Clone:</b>              | 56C6   |
| <b>Isotype:</b>            | Mouse IgG1   |
| <b>Species reactivity:</b> | Human +, rat +, others not tested                                  |

#### Summary and Description

CD10 (CALLA, Common Acute Lymphoblastic Leukemia Antigen) is an integral Type II-membrane protein with a molecular weight of 100 kDa. CD10 was identified as a human membrane-associated neutral metalloendopeptidase. Synonyms are NEP, encephalokinase or neprilysin.

CD10 is present on precursor B-cells, a subset of precursor T-cells, mature granulocytes, approximately 75 % of BALL, a subset of T-ALL/T-LBL, and on all ALL-subtypes. Burkitt's lymphomas and myelomas stain positive for CD10, as well as some diffuse large-cell B-cell lymphomas and most follicular lymphomas. Few tumours of epithelial origin like carcinomas of the kidney, bladder, prostate, uterus and liver stain also positive.

MALT lymphomas and mantel cell lymphomas are negative for CD10.

CD10 is a frequently utilised marker for differential diagnosis of lymphomas but is also used for discrimination of e.g. hepatocellular carcinomas vs. liver metastases of other origins.

#### Reagent provided








Mouse monoclonal antibody from cell culture supernatant in PBS, pH 7.4 with carrier protein and preservative for stabilisation in the following formats:

|                      |        |                      |
|----------------------|--------|----------------------|
| <b>Concentrate:</b>  | 1 ml   | (Cat. No. AIB-30290) |
| <b>Concentrate:</b>  | 0.5 ml | (Cat. No. AIB-30291) |
| <b>Ready-to-use:</b> | 6 ml   | (Cat. No. AIB-30289) |

#### 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'.

Explanations of the symbols on the product label:

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

## Storage and handling

The antibody should be stored at 2-8°C without further 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's 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.

Sodium azide (NaN<sub>3</sub>), 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

\*Pre-treatment  
20015/-20016)  
\*Control tissue  
\*Working dilution  
\*Incubation time

### Nordic BioSites recommendations

Heat Induced Epitope Retrieval (for example in Citrate Buffer pH 6.0 (BCB-  
Tonsil, lymph nodes, kidney  
1:25-1:50 (for concentrates)  
30-60 minutes

## Quality control

The recommended positive control tissues for this antibody are tonsil, lymph nodes or kidneys. 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 quality 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 in the cytoplasm and the cytoplasmic membrane of CD10 positive cells in formalin-fixed, paraffin-embedded tissue sections. Interpretation of the staining results is solely the responsibility of the user. Any experimental result should be confirmed by a medically established diagnostic procedure.

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## 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.

## 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








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