



Rabbit anti-CDX2 (EPR2764Y)

Cat. No.: AIB-30283 (1 ml concentrate); AIB-30284 (0.5 ml concentrate); AIB-30285 (6 ml Ready-to-use)

Instructions for use

Intended use

This antibody is designed for the specific localisation of CDX2 protein in formalin-fixed, paraffin-embedded tissue sections. Anti-CDX2 antibody is intended for in vitro diagnostic use.

Specifications

Specificity: CDX2
Clone: EPR2764Y
Isotype: Rabbit IgG1
Species reactivity: Human+, others not tested

Summary and description

CDX2 is a transcription factor which regulates proliferation and differentiation of intestinal mucosa. In adults the expression of CDX2 is usually limited to intestinal epithelium. Immunohistochemically, the protein is detectable in nuclei of normal intestinal epithelium. Loss of CDX2 correlates with loss of differentiation in colorectal tumours. Anti-CDX2 antibody is very useful in identifying the origin of metastatic adenocarcinomas and carcinoids. Some mucinous carcinomas of the ovary also stain positive with this CDX2 antibody as well as some carcinomas from the upper gastrointestinal tract (see Moskaluk *et al.* 2003).

Reagent provided

Rabbit monoclonal antibody in PBS with carrier protein and preservative for stabilisation in the following formats:

Concentrate: 1 ml (Cat. No. AIB-30283)
Concentrate: 0.5 ml (Cat. No. AIB-30284)
Ready-to-use: 6 ml (Cat. No. AIB-30285)

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 further dilution.

Explanation of the symbols on the product label:

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

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. The 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 BioSites' 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 (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. A material safety data sheet (MSDS) for the pure substance is 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:	Nordic BioSites recommendations Heat Induced Epitope Retrieval in citrate buffer pH 6.0 (BCB-20015/BCB-20016)
*Control tissue:	Colon carcinoma or normal colon mucosa
*Working dilution:	1:50-1:100 (for concentrates)
*Incubation time:	60 minutes

Quality control

The recommended positive control tissues for this antibody are colon carcinoma or normal colon mucosa. 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 Nordic BioSite.








Expected results

This antibody stains positive in the nuclei of epithelial cells of intestinal tissue 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.

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

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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. CDX2 is known as specific marker for epithelial cells of intestinal origin. However, new investigations have shown that some mucinous ovary carcinomas and other non-intestinal tumours may be positive for CDX2 (also see Moskaluk *et al*. 2003).

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 crossreactivity.

Bibliography








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