



Rabbit monoclonal anti-E-Cadherin

**Cat. No.: AIB-30228 (1 ml Concentrate); AIB-30227 (0.5 ml Concentrate);
AIB-30254 (6 ml Ready-to-use)**

Instructions for use

Intended use

This antibody is designed for the specific localisation of E-Cadherin protein in formalin-fixed, paraffin-embedded tissue sections and in frozen sections.

Anti-E-Cadherin antibody is intended for in vitro diagnostic use.

Specifications

Specificity:	E-Cadherin
Immunogen:	CD324, Cadherin-1
Clone:	EP700Y
Isotype:	Rabbit IgG
Species reactivity:	Human +, others not tested

Summary and Description

E-cadherin is a glycoprotein of the cellular surface with a molecular weight of 123 kDa. It is also known as CD324, Cadherin-1, Uvomorulin, L-CAM, cell-CAM 120/80, and Arc-1.

Like other cadherins, E-cadherin is responsible for the calcium dependent adhesion between epidermal cells and other epithelial cell types. The loss of cell adhesion caused by E-cadherin is closely connected to the progression of various carcinomas. This for example was shown in breast or bladder carcinomas.

About 45% of the tumours of various organs show reduced expression of E-cadherin. E-cadherin expression in carcinomas has an inversely proportional relationship to the extent of differentiation. In breast carcinoma a correlation was observed between low expression of E-cadherin, lymph node metastases and poor prognosis. Most lobular carcinomas display a complete loss of E-cadherin expression.

The immunohistochemical detection of E-cadherin leads to a strong staining of the cytoplasmic membrane.

However, an abnormal expression has also been observed inside the cytoplasm of tumour cells, which can suggest a negative prognosis (Nakopoulou et al.).

Reagent provided








Rabbit monoclonal antibody in phosphate buffer pH 7.4 with carrier protein and preservative for stabilisation in the following formats:

Concentrate:	1 ml	(Cat. No. AIB-30228)
Concentrate:	0.5 ml	(Cat. No. AIB-30227)
Ready-to-use:	6 ml	(Cat. No. AIB-30254)

Dilution of primary antibody

Dilution of Nordic Biosite' 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 Biosite' recommendations see chapter 'Staining procedure'.

Explanations 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@nordicbiosite.com www.nordicbiosite.com
	Use By Verwendbar bis Utiliser jusqu'à		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	

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. 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 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 (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
20015/-20016)
*Control tissue
*Working dilution
*Incubation time

Nordic BioSites recommendations

Heat Induced Epitope Retrieval (for example in Citrate Buffer pH 6.0 (BCB-
Pancreas, adenocarcinoma of the lung, breast
1:50-1:200 (for concentrates)
30-60 minutes

Quality control

The recommended positive control tissues for this antibody are pancreas, adenocarcinoma of the lung or breast. 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 cytoplasmic membrane in formalin-fixed, paraffin-embedded tissue sections. Further details about the expression pattern of E-Cadherin can be found in the chapter 'Summary and Description'. 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

Bankfalvi A et al. Histopathol 34:25-34, 1999
Nakopoulou L et al. Histopathol 40:536-546, 2002
Elzagheid A et al. Histopathol 41:127-133, 2002








Horiguchi Y et al. J Histochem Cytochem 42:1333-1340, 1994
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

November 11, 2013

Rev: A1113

Doc: DBE_AIB-30228/-30227/-30254

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