Mouse anti-Chromogranin A

Cat. No.: AIB-30061 (1 ml Concentrate); AIB-30062 (0.5 ml Concentrate); AIB-30060 (6 ml Ready-to-use)

Instructions for use

Intended use
This antibody is designed for the specific localisation of Chromogranin A in formalin-fixed, paraffin-embedded tissue sections and in frozen tissue.
Anti-Chromogranin A antibody is intended for research use only.

Specifications

Specificity:	Chromogranin A
Immunogen:	Purified human Chromogranin A
Clone:	LK2H10
Isotype:	Mouse IgG1 kappa
Species reactivity:	Human +, pig +, others not tested

Summary and Description
Human chromogranin A is a protein of 439 amino acid residues (68 kDa), which is expressed by neuroendocrine cells of the complete body. It is detectable i.e. in intestinal neuroendocrine cells, in the adrenal medulla, in pancreatic islets, in the adenohypophysis, in parafollicular thyroid C cells as well as in tumours derived from these cells or tissues.
In immunohistochemistry this antibody stains neurosecretory granules of neuroendocrine cells. Anti-Chromogranin A antibody is useful for staining of Merkel cell carcinomas, neuroblastomas, of metastases of small cell carcinomas of the lung and carcinoides. In combination with synaptophysin, chromogranin A is one of the most important markers for neuroendocrine tumours.
In neuroendocrine neoplasias chromogranin A is often found co-expressed with neuron-specific enolase (NSE) and the *Protein Gene Product* 9.5 (PGP9.5).

Reagent provided
Mouse monoclonal antibody from mouse ascites in buffer with carrier protein and preservative for stabilisation in the following formats:

Concentrate:	1 ml	(Cat. No. AIB-30061)
Concentrate:	0.5 ml	(Cat. No. AIB-30062)
Ready-to-use:	6 ml	(Cat. No. AIB-30060)

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’.

Explanation of the symbols on the product label:

REF	Catalog Number Bestellnummer Reference du catalogue	LOT	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	IVD	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 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 for support.

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.
ProClin300 and sodium azide (NaN_3), used for stabilisation, are not considered hazardous materials in the concentrations 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	None
*Control tissue	Pancreas
*Working dilution	1:200-1:400 (for concentrates)
*Incubation time	60 minutes

Quality control
The recommended positive control tissue for this antibody is pancreas. 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 cytoplasm of chromogranin A expressing 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

Wilson BS et al. Am J Pathol 115:458-468, 1984
Hendy GN et al. Clin Investig Med 18:47-65, 1995
Blumenfeld W et al. Arch Pathol Lab Med 120:478-481, 1996
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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