DATA SHEET

Chromogranin A Ab-1 (Lk2H10)

Mouse Monoclonal Antibody

Cat. #DLN-08952, -08953, or -08951 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #DLN-08954 or -08955 (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #DLN-08949, -08950, or -08948 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-Labeled Ab with BSA and Azide)
Catalog #DLN-08956 (7.0ml)

Description: Chromogranin A (a protein of 439-amino acid which is encoded on chromosome 14) is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheo-chromocytomas, paragangliomas, and other neuro-endocrine tumors. Coexpression of chromogranin A and neuron specific enolase (NSE) is common in neuroendocrine neoplasms.

Mol. Wt. of Antigen: 68-75kDA

Epitope: Cytoplasmic domain

Species Reactivity: Human, Monkey, Pig, Rat, and Rabbit. Others-not known.

Clone Designation: LK2H10

Ig Isotype: IgG_1 / κ

Immunogen: Human pheochromocytoma.[1]

Applications and Suggested Dilutions:

- Western Blotting
  (Ab 1-2µg/ml for 2hrs at RT)
- Immunohistology (Formalin/paraffin)
  (Use Ab at 1:800 for 20 minutes at RT)
  [Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min., and use of a high-sensitivity detection system

The optimal dilution for a specific application should be determined by the investigator.
Staining tips: If the staining is too light, use lower dilution or longer time. If the staining is too strong, use higher dilution or shorter time.

Positive Control: PC-12 cells. Pancreas.

Cellular Localization: Cytoplasmic.

Supplied As:

200µg/ml antibody purified from the ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

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Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Lloyd RV, *et. al.* Science, 1983, 222:628-30.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

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Additional Key References:

1. Battersby S; Dely CJ; Hopkinson HE; Anderson TJ. The nature of breast dense core granules: chromogranin reactivity. Histopathology, 1992 Feb, 20(2):107-14.
2. Lukinius A; Wilander E; Eriksson B; Oberg K. A chromogranin peptide is co-stored with insulin in the human pancreatic islet B-cell granules. Histochemical Journal, 1992 Sep, 24(9):679-84.
3. Wirnsberger GH; Becker H; Ziervogel K; Hofler H. Diagnostic immunohistochemistry of neuroblastic tumors. American Journal of Surgical Pathology, 1992 Jan, 16(1):49-57.
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