

Mouse Anti-Human Chromogranin A,
monoclonal

CatNo

K001

BatchNo: See Label
Expiration Date: See label
Storage: 2-8°C for 1 month
-20°C for longer

Clone Number:	LK2H10
Volume/Quantity:	100 µg/100 µl
Product Form:	Purified IgG - liquid
Preparation:	Ammonium sulphate precipitation followed by ion exchange chromatography.
Buffer:	Phosphate buffered saline
Preservatives Stabilisers:	10 mM Sodium Azide (NaN ₃)
Approx. Protein Concentrations:	IgG concentration 1 mg/ml
Immunogen:	Human pheochromocytoma tissue
Fusion Partners:	Spleen cells from an immunised BALB/c mouse were fused with cells of the mouse NS1 myeloma cell line.
Isotype:	IgG1 (Mouse)
Specificity:	K001 recognises human Chromogranin A and related chromogranin polypeptides. The antibody stains endocrine derived cells containing secretory storage granules. In staining of tumour cells the intensity of staining is proportional to the number of secretory storage granules present. Small cell carcinoma of the lung, Merkel cell carcinomas and neuroblastomas exhibit weak staining, whilst most other endocrine derived tumours stain strongly.
Species Cross Reactivity:	Human, monkey, pig but not sheep, rabbit, guinea pig, rat, or mice.

Applications:

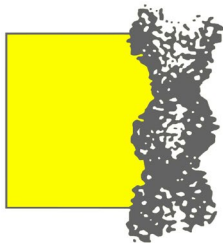
Suggested Working Dilution

Application	Tested	Suggested Working Dilution
FlowCytometry	Not tested	
Immunohistology-frozen	Yes	1/1000
Immunohistology-paraffin	Yes	1/1000
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Not tested	
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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Immunohistology

Pre-treatment:	This product does not require protein digestion pre-treatment of paraffin sections
Positive Control Tissue:	Normal Pancreas
Recommended Secondary Reagents:	F(ab') ₂ rabbit anti-mouse IgG HRP conjugate – (LINARIS CatNo LST0013B) Vectastain [®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector [®] Red (Vector CatNo SK-5100). Vectastain [®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).
Recommended Negative Controls:	Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

References

1. DeStefano, D.B., Lloyd, R.V., Pike, A.N., Wilson, B.S. (1984). Pituitary Adenomas: An immunohistochemical study of hormone production and chromogranin. *Am. J. Pathol.* 116: 464.
2. Lloyd, R.V. and Wilson, B.S. (1983) Specific endocrine tissue marker defined by a monoclonal antibody. *Science* 222: 628
3. Lloyd R.V., Mervak T., Schmidt K., Warner T., Wilson B.S. (1984). Immunohistochemical detection of chromogranin and neuron-specific enolase in pancreatic endocrine neoplasms. *Am. J. Surg. Pathol.* 8: 607.
4. Walts, A.E., Said, J.W., Shintaku, P. and Lloyd, R.V.: (1985). Chromogranin as a marker of neuroendocrine cells in cytologic material - an immunocytochemical study. *Am. J. Clin. Pathol.* 84: 273-277.
5. Wilson, B.S., and Lloyd, R.V. (1984). Detection of chromogranin in neuroendocrine cells with a monoclonal antibody. *Am. J. Pathol.* 115: 458.

Storage Conditions:	Store at 2-8°C for one month or at -20°C for longer! Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life:	12 months from date of despatch.
Health and Safety Information:	(A full Health and Safety assessment is available upon request) This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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For Research purposes only. Not for therapeutic or diagnostic use.

