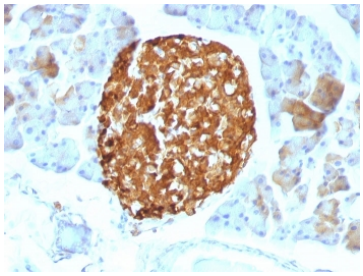
Chromogranin A Antibody [clone LK2H10] (V2099)

Catalog No.	Formulation	Size
V2099-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2099-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2099SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2099IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

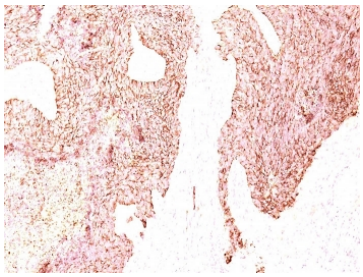
Citations (9)

Bulk quote request

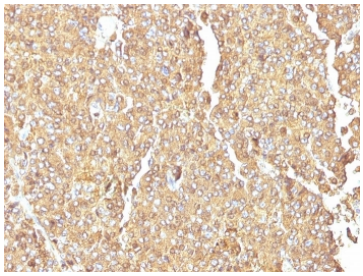
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	LK2H10
Purity	Protein G purified monoclonal antibody
Gene ID	1113
Localization	Finely granular cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This **Chromogranin A antibody** is available for research use only.



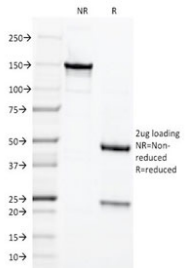
IHC staining of FFPE mouse pancreas tissue with Chromogranin A antibody (clone LK2H10). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



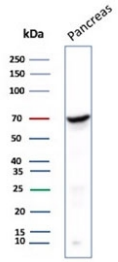
IHC testing of human small cell lung carcinoma stained with Chromogranin A antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC testing of FFPE human adrenal gland with Chromogranin A antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Chromogranin A antibody (clone LK2H10) as confirmation of integrity and purity.



Western blot testing of human pancreas tissue lysate with Chromogranin A antibody. Predicted molecular weight ~50 kDa but may be observed at higher molecular weights due to glycosylation.

Description

Chromogranin A antibody clone LK2H10 is a monoclonal antibody that detects chromogranin A, a glycoprotein stored in neuroendocrine secretory granules. Like clone CGA/414, clone LK2H10 is widely used to identify cells and tumors with neuroendocrine differentiation. NSJ Bioreagents supplies this antibody as a trusted tool for both diagnostic pathology and neuroendocrine biology research.

Chromogranin A antibody clone LK2H10 shows strong cytoplasmic staining in neuroendocrine cells, including those in the adrenal medulla, pancreas, pituitary, and gastrointestinal tract. In pathology, it is an essential marker for diagnosing neuroendocrine tumors such as carcinoids, pheochromocytomas, and paragangliomas. The antibody consistently reveals tumor cells that retain secretory granules, providing pathologists with a sensitive and specific marker for neuroendocrine classification.

Researchers use chromogranin A antibody clone LK2H10 to investigate the role of CgA in hormone and peptide release. CgA processing produces biologically active fragments, such as catestatin, which modulate vascular tone and catecholamine secretion. Detecting CgA with clone LK2H10 allows scientists to study these pathways in endocrine regulation, stress response, and cardiovascular physiology.

Clone LK2H10 has also been employed in oncology studies, where neuroendocrine markers are used to evaluate mixed tumors and determine whether a neoplasm exhibits neuroendocrine differentiation. It performs well in formalin-fixed, paraffin-embedded tissue, frozen sections, and immunofluorescence, ensuring broad applicability. Alternate names include CgA antibody, secretory granule glycoprotein antibody, and neuroendocrine tumor marker chromogranin A antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Chromogranin A antibody to be titered up or down for optimal performance.

1. 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 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human pheochromocytoma cells were used as the immunogen for this Chromogranin A antibody.

Storage

Store the Chromogranin A antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (3)

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