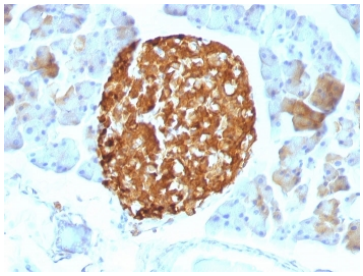
Chromogranin A Antibody Clone LK2H10 / CHGA [clone LK2H10] (V2099)

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

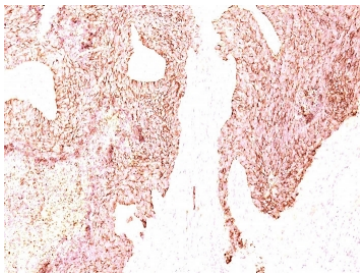
Citations (9)

Bulk quote request

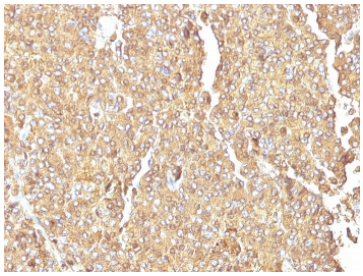
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	LK2H10
Purity	Protein G purified monoclonal antibody
Gene ID	1113
Localization	Finely granular cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30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



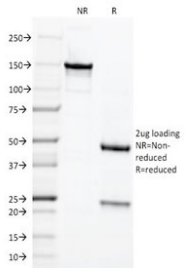
Chromogranin A Antibody Clone LK2H10 Mouse Pancreas Tissue IHC. Immunohistochemistry staining of FFPE mouse pancreas tissue with Chromogranin A antibody (clone LK2H10). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



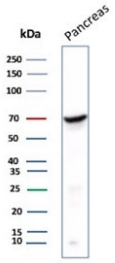
Chromogranin A Antibody Clone LK2H10 Human Small Cell Lung Carcinoma IHC. Immunohistochemistry testing of human small cell lung carcinoma stained with Chromogranin A antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Chromogranin A Antibody Clone LK2H10 Human Adrenal Gland IHC. Immunohistochemistry 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.



Chromogranin A Antibody Pancreas WB. 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 (CHGA) is a secretory glycoprotein localized to dense core granules of neuroendocrine cells, where it plays a central role in hormone storage, prohormone processing, and regulated secretion. Chromogranin A Antibody / Clone LK2H10 is a mouse monoclonal antibody developed for detection of CHGA in neuroendocrine tissues and cell systems, supporting analysis of endocrine differentiation and secretory activity. Chromogranin A (CHGA) is widely expressed in endocrine organs including adrenal medulla, pancreas, gastrointestinal tract, and brain, where it exhibits a characteristic granular cytoplasmic distribution that reflects its localization within secretory vesicles.

Chromogranin A antibody, also referred to as CHGA antibody or neuroendocrine marker antibody, recognizes a protein that undergoes extensive post-translational modification and proteolytic processing to generate multiple biologically active peptides involved in hormone regulation and intercellular signaling. CHGA is co-stored and co-released with peptide hormones and amines, making it a functional indicator of secretory activity in neuroendocrine cells. Its highly conserved role in secretory granule biology underlies its widespread use as a marker of neuroendocrine lineage and differentiation.

Clone LK2H10 is a well-established monoclonal antibody that has been widely used for detection of Chromogranin A in research applications. This clone provides consistent recognition of CHGA and produces staining patterns that closely align with the known biology of the protein, including strong granular cytoplasmic localization in neuroendocrine cells and

minimal signal in non-neuroendocrine tissues. The reproducibility of these staining characteristics across tissue types supports reliable interpretation of CHGA expression in diverse experimental settings.

Chromogranin A expression is a defining feature of neuroendocrine tissues and tumors. In normal tissues, strong expression is observed in adrenal medulla, pancreatic islets, and scattered enteroendocrine cells of the gastrointestinal tract. In disease contexts, elevated CHGA expression is commonly detected in neuroendocrine neoplasms such as carcinoid tumors, small cell carcinoma, medullary thyroid carcinoma, and pancreatic neuroendocrine tumors. The distinct granular staining pattern observed with Chromogranin A antibodies enables clear identification of neuroendocrine differentiation and supports discrimination from non-neuroendocrine malignancies.

In addition to tissue-based detection, CHGA can be evaluated in cell-based and protein-level assays, where its expression provides insight into secretory function, differentiation status, and cellular signaling pathways. The ability of clone LK2H10 to consistently detect CHGA across experimental formats supports its use in studies requiring dependable and biologically accurate target recognition.

Given its central role in secretory granule biology and endocrine signaling, CHGA represents a key target in neuroendocrine research. A Chromogranin A antibody can be used to evaluate CHGA expression and localization in systems where consistency, specificity, and alignment with established biological patterns are essential for accurate experimental interpretation.

This Chromogranin A antibody is part of a broader CHGA antibody panel offered by NSJ Bioreagents.

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 Clone LK2H10 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).

Alternate Names

CHGA antibody, Chromogranin A monoclonal antibody, neuroendocrine marker antibody, CHGA protein antibody, Chromogranin A IHC antibody

References (3)

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