

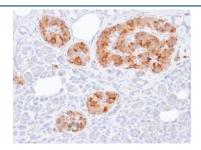
Recombinant Chromogranin A Antibody [clone rCHGA/413] (V3622)

Catalog No.	Formulation	Size
V3622-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3622-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3622SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

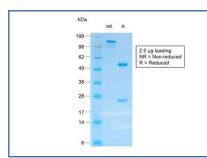
Recombinant MOUSE MONOCLONAL

Bulk quote request

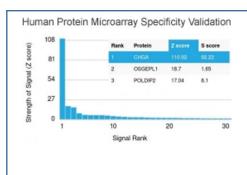
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2b, kappa
Clone Name	rCHGA/413
Purity	Protein G affinity chromatography
UniProt	P10645
Localization	Finely granular cytoplasmic
Applications	Immunohistochemistry (FFPE): 0.25-0.5ug/ml for 30 min at RT
Limitations	This recombinant Chromogranin A antibody is available for research use only.



IHC testing of human pancreas tissue with recombinant Chromogranin A antibody (rCHGA/413). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant Chromogranin A antibody (clone rCHGA/413) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant Chromogranin A antibody (clone rCHGA/413). These results demonstrate the foremost specificity of the rCHGA/413 mAb.

Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Recombinant Chromogranin A antibody is used to detect chromogranin A, a secretory glycoprotein stored in the dense core granules of neuroendocrine cells. Encoded by the CHGA gene, chromogranin A is widely expressed in endocrine tissues such as the adrenal medulla, pancreas, and gastrointestinal tract. It plays roles in hormone packaging, secretion, and regulation of neuroendocrine signaling. Because of its broad distribution, chromogranin A is a cornerstone marker for neuroendocrine differentiation.

Chromogranin A is processed into several biologically active peptides, including vasostatin, pancreastatin, and catestatin. These fragments influence cardiovascular regulation, glucose metabolism, and neurotransmission. Elevated chromogranin A levels in circulation serve as biomarkers for neuroendocrine tumors, making it clinically valuable in oncology. Its biology spans multiple systems, integrating endocrinology, metabolism, and disease pathology.

The Recombinant Chromogranin A antibody clone rCHGA/413 provides consistent and specific recognition. Recombinant technology ensures reproducibility and reduces lot to lot variation. Clone rCHGA/413 has been employed in pathology to identify neuroendocrine tumors, in endocrinology to explore hormone storage, and in neuroscience to examine neuropeptide regulation. Its versatility makes it useful across diverse fields of research.

Studies using clone rCHGA/413 have clarified how chromogranin A supports granule biogenesis and secretion. Its role as a tumor marker has been particularly important, as detection helps diagnose and monitor neuroendocrine tumors including pheochromocytoma, paraganglioma, and carcinoid tumors. This antibody continues to aid both basic science and translational applications.

NSJ Bioreagents offers this Recombinant Chromogranin A antibody to support studies in neuroendocrine biology and cancer. The protein is also described as CHGA antibody, secretory granule protein antibody, parathyroid secretory protein 1 antibody, and neuroendocrine tumor marker antibody, reflecting the varied terminology in the literature.

Application Notes

Optimal dilution of the recombinant Chromogranin A antibody should be determined by the researcher.

1. 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

Recombinant human protein was used as the immunogen for the recombinant Chromogranin A antibody.

Storage

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