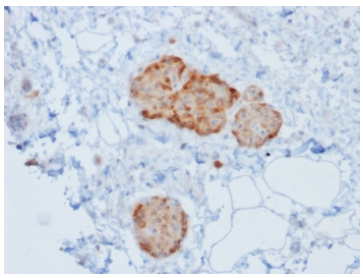
Recombinant CHGA Antibody / Chromogranin A [clone rCHGA/777] (V3623)

Catalog No.	Formulation	Size
V3623-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3623-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3623SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3623IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

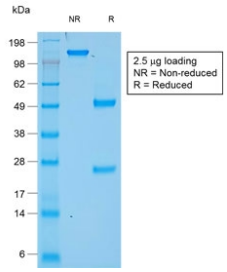
Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rCHGA/777
Purity	Protein G affinity chromatography
UniProt	P10645
Localization	Finely granular cytoplasmic
Applications	Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This recombinant CHGA antibody is available for research use only.



Immunohistochemistry of Recombinant CHGA Antibody in human pancreas. Formalin-fixed, paraffin-embedded human pancreatic tissue stained with recombinant CHGA antibody (clone rCHGA/777) demonstrates strong cytoplasmic granular staining within islets of Langerhans, consistent with Chromogranin A expression in pancreatic neuroendocrine cells, while surrounding exocrine acinar tissue is largely negative. Heat-induced epitope retrieval was performed by boiling tissue sections in 10mM citrate buffer, pH 6, for 10-20 minutes followed by cooling at room temperature for 20 minutes prior to testing.



SDS-PAGE analysis of purified, BSA-free recombinant CHGA antibody (clone rCHGA/777) as confirmation of integrity and purity.

Description

Recombinant CHGA antibody recognizes Chromogranin A, a secretory granule protein encoded by the CHGA gene and a well-established marker of neuroendocrine differentiation. Recombinant CHGA Antibody (clone rCHGA/777) is a mouse monoclonal antibody generated through recombinant expression to provide consistent performance and lot-to-lot reproducibility. Chromogranin A localizes to the cytoplasm within dense-core secretory vesicles of endocrine and neuroendocrine cells, where it participates in hormone packaging, granule biogenesis, and regulated secretion.

CHGA antibody, also referred to as Chromogranin A antibody, CgA antibody, and CGA antibody in the literature, targets a member of the granin family of acidic secretory proteins. After synthesis, Chromogranin A undergoes proteolytic processing to generate multiple biologically active peptides, including vasostatin, pancreastatin, and catestatin. These peptides are involved in modulation of cardiovascular function, metabolic regulation, and neuroendocrine signaling pathways. Within the trans-Golgi network, Chromogranin A promotes aggregation of peptide hormones and contributes structurally to formation and stabilization of secretory granules.

CHGA expression is characteristic of adrenal medulla chromaffin cells, pancreatic islet cells, gastrointestinal enteroendocrine cells, parathyroid tissue, and other dispersed neuroendocrine cell populations. The expected immunohistochemical pattern is cytoplasmic granular staining reflecting localization within secretory vesicles. Because of this lineage-restricted distribution, Chromogranin A serves as a robust research marker for identifying neuroendocrine cells and studying differentiation pathways.

In oncology research, Chromogranin A expression is frequently evaluated in neuroendocrine neoplasms including carcinoid tumors, pancreatic neuroendocrine tumors, small cell carcinoma, medullary thyroid carcinoma, and pheochromocytoma. Strong cytoplasmic staining supports neuroendocrine lineage, whereas most non-neuroendocrine carcinomas demonstrate limited or absent expression. Recombinant CHGA Antibody (clone rCHGA/777) enables reliable detection of Chromogranin A expression patterns in normal and neoplastic tissues for research use at NSJ Bioreagents.

For a well-established Chromogranin A antibody widely used for consistent detection of CHGA in neuroendocrine tissues, see our Chromogranin A Antibody / Clone LK2H10.

Application Notes

Optimal dilution of the recombinant CHGA 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 CHGA antibody.

Storage

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

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