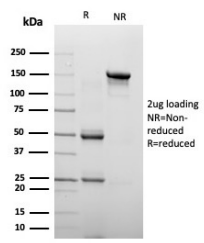
Chromogranin A Antibody Mouse Monoclonal [clone CHGA/4223] (V9385)

Catalog No.	Formulation	Size
V9385-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9385-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9385SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CHGA/4223
Purity	Protein A/G affinity
UniProt	P10645
Localization	Finely granular cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Chromogranin A Antibody Mouse Monoclonal is available for research use only.



Chromogranin A Antibody Mouse Monoclonal SDS-PAGE. SDS-PAGE analysis of purified, BSA-free Chromogranin A antibody mouse monoclonal (clone CHGA/4223) as confirmation of integrity and purity.

Description

Chromogranin A antibody recognizes Chromogranin A, a secretory granule protein encoded by the CHGA gene and widely used as a marker of neuroendocrine differentiation. Chromogranin A Antibody Mouse Monoclonal (clone

CHGA/4223) is developed to detect this cytoplasmic granule-associated protein in research applications involving endocrine and neuroendocrine tissues. Chromogranin A localizes predominantly to the cytoplasm within dense-core secretory vesicles, where it plays an important role in hormone storage, granule formation, and regulated secretion.

Chromogranin A antibody, also referred to as CHGA 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 several biologically active peptides, including vasostatin, pancreastatin, and catestatin, which contribute to modulation of cardiovascular tone, metabolic regulation, and neuroendocrine signaling pathways. Within the trans-Golgi network and secretory granules, Chromogranin A promotes aggregation of peptide hormones and stabilizes the dense-core structure characteristic of neuroendocrine cells.

CHGA expression is characteristic of adrenal medulla chromaffin cells, pancreatic islet cells, gastrointestinal enteroendocrine cells, parathyroid tissue, and dispersed neuroendocrine cells throughout multiple organ systems. The expected immunostaining pattern is cytoplasmic granular positivity reflecting localization to secretory vesicles. Because of this restricted distribution, Chromogranin A serves as a robust marker for identifying neuroendocrine lineage in research studies.

In tumor biology investigations, 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 differentiation, while most non-neuroendocrine carcinomas demonstrate limited or absent expression. Chromogranin A Antibody Mouse Monoclonal (clone CHGA/4223) enables consistent detection of Chromogranin A expression patterns in normal and neoplastic tissues for research use at NSJ Bioreagents.

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

Application Notes

Optimal dilution of the Chromogranin A Antibody Mouse Monoclonal should be determined by the researcher.

Immunogen

A portion of amino acids 23-165 was used as the immunogen for the Chromogranin A antibody mouse monoclonal.

Storage

Aliquot the Chromogranin A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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