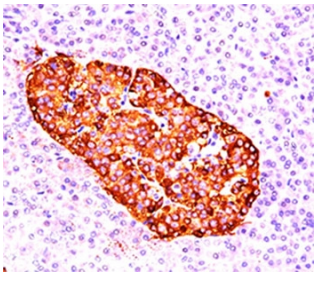
Chromogranin A Antibody [clone CGA/414] (V2095)

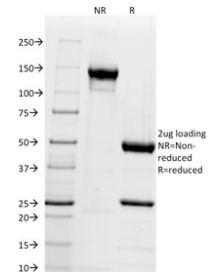
Catalog No.	Formulation	Size
V2095-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2095-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2095SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2095IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ug

Bulk quote request

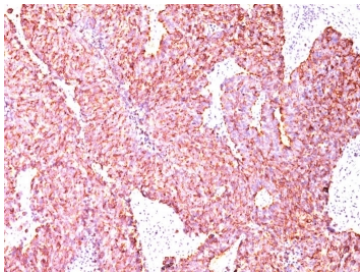
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CGA/414
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	1113
Localization	Finely granular cytoplasmic
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-3ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This **Chromogranin A antibody** is available for research use only.



IHC testing of pancreas stained with chromogranin A antibody (CGA414).



SDS-PAGE analysis of purified, BSA-free Chromogranin A antibody (clone CGA/414) as confirmation of integrity and purity.



IHC staining of FFPE human small cell lung carcinoma tissue with Chromogranin A antibody (clone CGA/414). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Chromogranin A antibody clone CGA/414 is a monoclonal antibody that detects chromogranin A, an acidic glycoprotein stored in secretory granules of neuroendocrine cells. Chromogranin A serves as a major marker of neuroendocrine differentiation and is widely used in both diagnostic pathology and neurobiology research. NSJ Bioreagents provides this antibody for consistent detection of neuroendocrine tumors and endocrine tissue.

The antibody produces strong cytoplasmic staining in neuroendocrine cells of the adrenal medulla, pituitary, pancreas, and gastrointestinal tract. In pathology, it is a gold-standard marker for neuroendocrine tumors such as pheochromocytomas, carcinoids, and pancreatic neuroendocrine tumors. By labeling chromogranin A, the antibody helps distinguish these neoplasms from non-neuroendocrine tumors.

In oncology, detection of chromogranin A is used to evaluate tumor classification, prognosis, and therapeutic response. Elevated serum levels are also studied as biomarkers in patients with neuroendocrine tumors. The antibody therefore supports both tissue-based diagnosis and translational biomarker research.

In neurobiology, it has been used to investigate secretory granule biology and neurotransmitter release. Chromogranin A regulates hormone storage and release, making its detection valuable in endocrine physiology studies.

Validated for tissue-based assays, the antibody consistently produces specific cytoplasmic staining with minimal background. Alternate names include CGA antibody, secretory granule marker antibody, and neuroendocrine tumor marker antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the 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

Recombinant human chromogranin A protein was used as the immunogen for this antibody.

Storage

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

References (2)