

## Mouse anti-Human Chromogranin A Monoclonal Antibody | anti-CHGA antibody

anti-human Chromogranin A (CGA) monoclonal antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                           |
|-----------|-------|------------|--------------------------------------------------------|
| AAA71490  | Mouse | Human      | Immunohistochemistry, Flow Cytometry, Functional Assay |

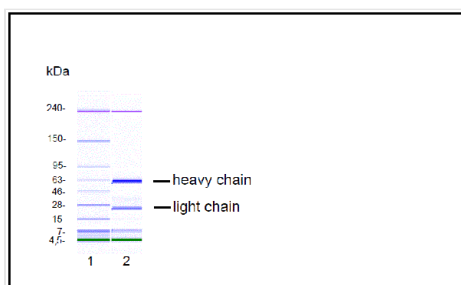
### PRODUCT SYNONYMS

Chromogranin A; Monoclonal Antibody; anti-human Chromogranin A (CGA) monoclonal antibody; anti-CHGA antibody

### PRODUCT SPECIFICATIONS

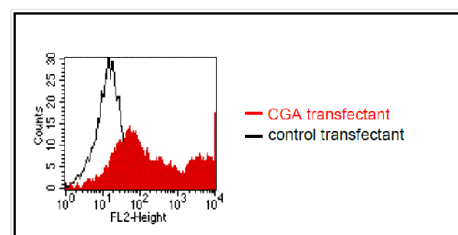
|                                                |                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                              |
| Reactivity                                     | Human                                                                                              |
| Clonality                                      | Monoclonal                                                                                         |
| Isotype                                        | IgG1                                                                                               |
| Clone Number                                   | NJ-5C9                                                                                             |
| Specificity                                    | anti-human Chromogranin A (CGA)                                                                    |
| Purity/Purification                            | Protein G                                                                                          |
| Form/Format                                    | Purified                                                                                           |
| Sequence Length                                | 457                                                                                                |
| Applicable Applications for anti-CHGA antibody | IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)                                              |
| Buffer                                         | phosphate buffered saline, pH 7.2                                                                  |
| Immunogen                                      | genetic immunisation with cDNA encoding CGA                                                        |
| Selection                                      | based on recognition of the complete native protein expressed on transfected mammalian cells       |
| Immunogen                                      | cDNA                                                                                               |
| Preparation and Storage                        | Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing) |

### IMAGES



#### Application Data

Fig.2: CGE analysis of purified NJ-5C9 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified NJ-5C9 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4.5 kDa).



#### Application Data

Fig.1: FACS analysis of BOSC23 cells using NJ-5C9 Cat.# GM-0909. BOSC23 cells were transiently transfected with an expression vector encoding either CGA (red curve) or an irrelevant protein (control transfectant: black curve). Binding of NJ-5C9 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with CGA transfected cells.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CHGA antibody | <b>Background:</b> Chromogranin A (CgA) is a 49 kDa protein which is a member of the granin/secretogranin family of acidic glycoproteins. It is specifically expressed in all endocrine and neuroendocrine cells and plays multiple roles in the process of regulated secretion of peptide hormones and neurotransmitters (1). Owing to its over-expression in several tumors of neuroendocrine origin, CgA is of value in classical endocrine, in hormone-negative and in neuroendocrine tumors (2). |
| References                                         | Hendy GN, Bevan S, Mattei MG, Moulard AJ (1995). Chromogranin A. Clin Invest Med;18(1):47-65.<br>Deftos LJ (1991). Chromogranin A: its role in endocrine function and as an endocrine and neuroendocrine tumor marker. Endocr Rev; 12(2):181-7.                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4502805                                                                                                                                                            |
| NCBI GeneID                      | 1113                                                                                                                                                               |
| NCBI Accession #                 | NP_001266.1                                                                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_001275.3                                                                                                                                                        |
| UniProt Accession #              | P10645; Q53FA8; Q6NR84; Q96E84; Q96GL7; Q9BQB5; B2R9E9                                                                                                             |
| Molecular Weight                 | 50,688 Da                                                                                                                                                          |
| NCBI Official Full Name          | chromogranin-A isoform 1 preproprotein                                                                                                                             |
| NCBI Official Synonym Full Names | chromogranin A (parathyroid secretory protein 1)                                                                                                                   |
| NCBI Official Symbol             | CHGA                                                                                                                                                               |
| NCBI Official Synonym Symbols    | CGA                                                                                                                                                                |
| NCBI Protein Information         | chromogranin-A; SP-I; catestatin; chromofungin; pituitary secretory protein I; parathyroid secretory protein 1; betagranin (N-terminal fragment of chromogranin A) |
| UniProt Gene Name                | CHGA                                                                                                                                                               |
| UniProt Synonym Gene Names       | CgA; SP-I                                                                                                                                                          |
| UniProt Entry Name               | CMGA_HUMAN                                                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/chromogranin-a-antibody-clone-nj-5c9-immunohistochemistry-flow-cytometry-elisa/71490>