

## **Product Datasheet**

## Chromogranin A/CHGA Antibody (orb1676428)

Catalog Number orb1676428

**Category** Antibodies

**Description** Anti-Chromogranin A/CHGA Antibody. Tested in ELISA, Flow Cytometry, IHC, WB

applications. This antibody reacts with Human.

**Clonality** Polyclonal

Species/Host Rabbit

**Isotype** Rabbit IgG

**Conjugation** Unconjugated

**Reactivity** Human

Form/Appearance Lyophilized

**Concentration** Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

**Purification** Immunogen affinity purified.

**Immunogen** E.coli-derived human Chromogranin A/CHGA recombinant protein (Position: L19-

E417).

UniProt ID P10645

**MW** 70 kDa

**Tested applications** ELISA, FC, IHC, WB

**Application notes** Western blot, 0.1-0.25 μg/ml, Human Immunohistochemistry(Paraffin-embedded

Section), 2-5  $\mu$ g/ml, Human Flow Cytometry (Fixed), 1-3  $\mu$ g/1x106 cells, Human ELISA, 0.1-0.5  $\mu$ g/ml, -. Adding 0.2 ml of distilled water will yield a concentration

of 500 µg/ml





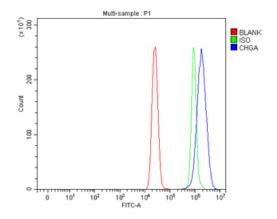
**Cross Reactivity** No cross-reactivity with other proteins.

**Antibody Type** Primary Antibody

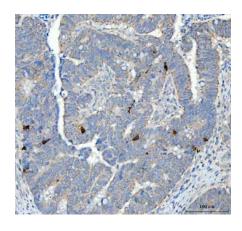
**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -

20°C in small aliquots to prevent freeze-thaw cycles.

**Note** For research use only



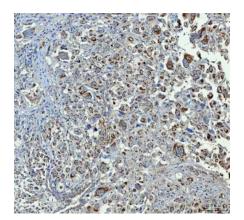
Flow Cytometry analysis of MCF-7 cells using anti-Chromogranin A/CHGA antibody. Overlay histogram showing MCF-7 cells (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Chromogranin A/CHGA Antibody (1  $\mu$ g/1x10^6 cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (5-10  $\mu$ g/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1  $\mu$ g/1x10^6) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



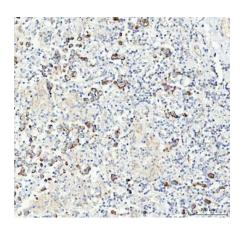
IHC analysis of Chromogranin A/CHGA using anti-Chromogranin A/CHGA antibody. Chromogranin A/CHGA was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Chromogranin A/CHGA Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.







IHC analysis of Chromogranin A/CHGA using anti-Chromogranin A/CHGA antibody. Chromogranin A/CHGA was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Chromogranin A/CHGA Antibody overnight at 4°C. Peroxidase Conjugated Goat Antirabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

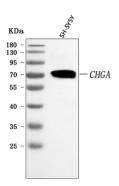


IHC analysis of Chromogranin A/CHGA using anti-Chromogranin A/CHGA antibody. Chromogranin A/CHGA was detected in a paraffin-embedded section of human testicular germ cell tumor tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2  $\mu$ g/ml rabbit anti-Chromogranin A/CHGA Antibody overnight at 4°C. Peroxidase Conjugated Goat Antirabbit lgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit lgG Super Vision Assay Kit with DAB as the chromogen.

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Western blot analysis of Chromogranin A/CHGA using anti-Chromogranin A/CHGA antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Chromogranin A/CHGA antigen affinity purified polyclonal antibody at 0.25  $\mu g/mL$  overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Chromogranin A/CHGA at approximately 70 kDa. The expected band size for Chromogranin A/CHGA is at 51 kDa.

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