10320 Camino Santa Fe, Suite G
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KD-Validated Anti-Chromogranin A Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI1943

Specification

KD-Validated Anti-Chromogranin A Mouse Monoclonal Antibody - Product Information

Application	**WB, ICC**
Primary Accession	P10645
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 51 kDa, observed, 48 kDa KDa**
Gene Name	**CHGA**
Aliases	**CHGA; Chromogranin A; PHE5; PHES; PaRathyroid Secretory Protein 1; Pituitary Secretory Protein I; Chromogranin-A; SP-I; Betagranin (N-Terminal Fragment Of Chromogranin A); Pancreastatin; Chromofungin; Vasostatin; Parastatin; Catestatin; CGA; CgA**
Immunogen	**Recombinant protein of human CHGA**

KD-Validated Anti-Chromogranin A Mouse Monoclonal Antibody - Additional Information

Gene ID	**1113**

Other Names
Chromogranin-A, CgA, Pituitary secretory protein I, SP-I, Vasostatin-1, Vasostatin I, Vasostatin-2, Vasostatin II, EA-92, ES-43, Pancreastatin, SS-18, WA-8, WE-14, LF-19, Catestatin, SL21, AL-11, GV-19, GR-44, ER-37, GE-25, Serpinin-RRG, Serpinin, p-Glu serpinin precursor, CHGA

KD-Validated Anti-Chromogranin A Mouse Monoclonal Antibody - Protein Information

Name CHGA

Function
[Pancreastatin]: Strongly inhibits glucose induced insulin release from the pancreas. [Serpinin]: Regulates granule biogenesis in endocrine cells by up-regulating the transcription of protease nexin 1 (SERPINE2) via a cAMP-PKA-SP1 pathway. This leads to inhibition of granule protein degradation in the Golgi complex which in turn promotes granule formation.

Cellular Location
[Serpinin]: Secreted {ECO:0000250|UniProtKB:P26339}. Cytoplasmic vesicle, secretory vesicle {ECO:0000250|UniProtKB:P26339}. Note=Pyroglutaminated serpinin localizes to secretory vesicle. {ECO:0000250|UniProtKB:P26339}

Tissue Location
Detected in cerebrospinal fluid (at protein level) (PubMed:25326458). Detected in urine (at protein level) (PubMed:37453717).

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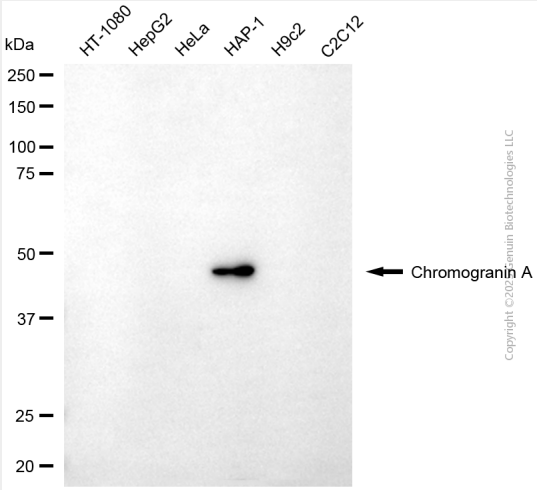
KD-Validated Anti-Chromogranin A Mouse Monoclonal Antibody - Protocols

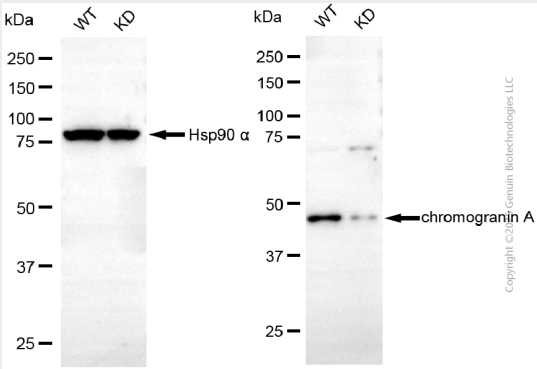
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Chromogranin A Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-chromogranin A antibody (Cat#63560). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-chromogranin A antibody (Cat#63560, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Western blotting analysis using anti-chromogranin A antibody (Cat#63560). Chromogranin A expression in wild type (WT) and chromogranin A (CHGA) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-chromogranin A antibody (Cat#63560, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using FeQ™ ECL

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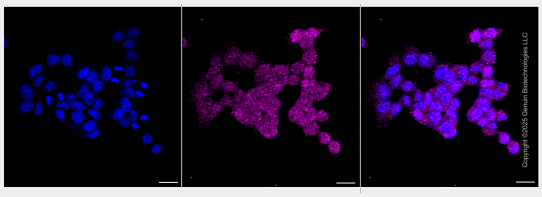
Substrate Kit (Cat#226).



Immunocytochemical staining of HAP-1 cells with Chromogranin A antibody (Cat#63560, 1:1,000). Nuclei were stained blue with DAPI; Chromogranin A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.