

Antibodies

Anti-Human Chromogranin A Antibody, Polyclonal

Rabbit polyclonal antibody against human, mouse, rat chromogranin A



Scientists Helping Scientists™ | WWW.STEMCELL.COM

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Catalog #100-1067

100 µL

Product Description

This rabbit polyclonal antibody reacts with chromogranin A, a secretory protein found in the cytoplasmic vesicles of neurons and endocrine cells. Proteolytic fragments of chromogranin A form functional peptides that help to maintain homeostasis through autocrine and paracrine processes. Chromogranin A and its derivatives play key roles in the inhibition of insulin and leptin secretion in the pancreas and adipocytes, respectively. In addition to its endocrine functions, chromogranin A modulates cardiovascular functions by inhibiting arterial vasoconstriction. Other post-translational derivatives of chromogranin A participate in inflammatory responses and display some potent antimicrobial activity against bacteria and fungi. Elevated measurements of plasma chromogranin A also serve as a biomarker for the diagnosis of neuroendocrine tumors.

Target Antigen Name:	Chromogranin A
Alternative Names:	CGA, CHGA, Chromogranin A, Parathyroid Secretory Protein 1, SP-1
Gene ID:	1113
Species Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit
Clonality:	Polyclonal
Clone:	Not applicable
Isotype:	Not applicable
Immunogen:	Synthetic peptide of Human CHGA
Conjugate:	Unconjugated

Applications

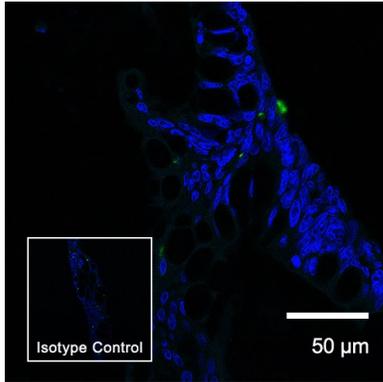
Verified:	ICC/IF
Reported:	IHC, WB
Special Applications:	This antibody has been verified for labeling chromogranin A-positive enteroendocrine cells in human intestinal organoids differentiated into monolayer and air-liquid interface (ALI) cultures using IntestiCult™ Organoid Differentiation Medium (Human) (Catalog #100-0214).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered saline, pH 7.4, containing 0.05% sodium azide and 40% glycerol
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at -20°C when stored undiluted. Stable until expiry date (EXP) on label.
Directions for Use:	The suggested use of this antibody is: ICC/IF, 2.5 µg/mL; IHC, 1:25 - 1:100; WB, 1:200 - 1:1000. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Primary differentiated intestinal organoid sections from L1 ALI ileal line were deparaffinized and rehydrated with water. The sections went through an antigen retrieval step, were blocked, and then labeled with Anti-Human Chromogranin A Antibody, Polyclonal, followed by Goat Anti-Rabbit IgG (H+L) Antibody, Polyclonal, iFluor™ 488 (Catalog #100-1082). Nuclei were counter-stained with DAPI (blue). Inset shows cells labeled with a rabbit IgG isotype control antibody, followed by Goat Anti-Rabbit IgG (H+L) Antibody, Polyclonal, iFluor™ 488 (with DAPI staining).

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

1. Zhang D et al. (2019) Chromogranin A regulates neuroblastoma proliferation and phenotype. *Biol Open* 8(3): 1–12. (WB)
2. Weisbrod AB et al. (2013) Altered PTEN, ATRX, CHGA, CHGB, and TP53 expression are associated with aggressive VHL-associated pancreatic neuroendocrine tumors. *Horm Cancer* 4: 165–75. (IHC)
3. Kato T et al. (2005) Cytokeratin 20-positive large cell neuroendocrine carcinoma of the colon. *Pathol Int* 55: 524–29. (IHC)

PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2022 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, Scientists Helping Scientists, and IntestiCult are trademarks of STEMCELL Technologies Canada Inc. iFluor is a trademark of AAT Bioquest, Inc. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.