

Anti-Secretogranin 3 Antibody
Catalog # ABO10555**Specification**

Anti-Secretogranin 3 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q8WXD2
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Secretogranin-3(SCG3) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Secretogranin 3 Antibody - Additional Information

Gene ID 29106

Other Names

Secretogranin-3, Secretogranin III, SgIII, SCG3

Calculated MW

53005 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, -
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, Rat, Mouse
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cytoplasmic vesicle, secretory vesicle lumen . Cytoplasmic vesicle, secretory vesicle membrane ; Peripheral membrane protein . Secreted. Associated with the secretory granule membrane through direct binding to cholesterol-enriched lipid rafts in intragranular conditions (By similarity). Neuroendocrine and endocrine secretory granules. .

Tissue Specificity

Expressed in brain, heart, kidney, liver and skeletal muscle. .

Protein Name

Secretogranin-3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Secretogranin 3(438-450aa DFINKQADAYVEK), different from the related mouse and rat sequences by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Secretogranin 3 Antibody - Protein Information**Name** SCG3**Function**

Member of the granin protein family that regulates the biogenesis of secretory granules (PubMed:19357184). Acts as a sorting receptor for intragranular proteins including chromogranin A/CHGA (By similarity). May also play a role in angiogenesis. Promotes endothelial proliferation, migration and tube formation through MEK/ERK signaling pathway (PubMed:29154827).

Cellular Location

Cytoplasmic vesicle, secretory vesicle {ECO:0000250|UniProtKB:P47868}. Cytoplasmic vesicle, secretory vesicle membrane {ECO:0000250|UniProtKB:P47868}; Peripheral membrane protein. Secreted. Note=Associated with the secretory granule membrane through direct binding to cholesterol-enriched lipid rafts. {ECO:0000250|UniProtKB:P47868}

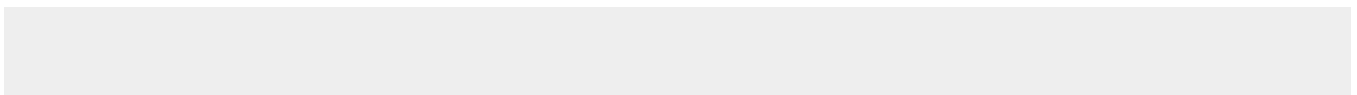
Tissue Location

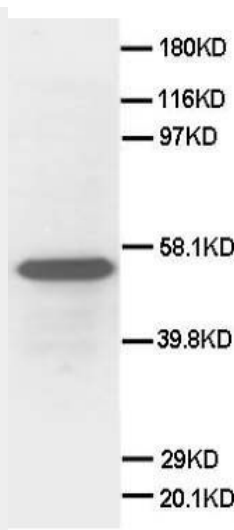
Detected in urine (at protein level) (PubMed:25326458). Expressed in brain, heart, kidney, liver and skeletal muscle.

Anti-Secretogranin 3 Antibody - Protocols

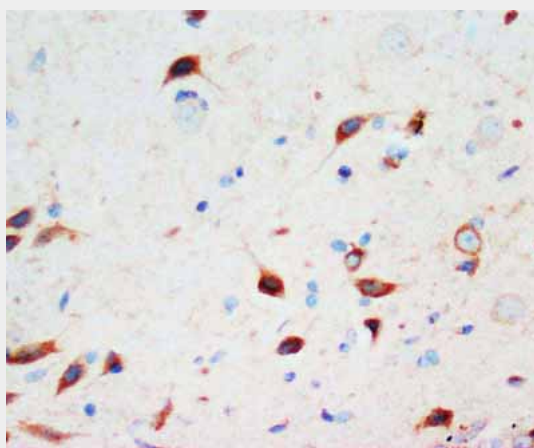
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

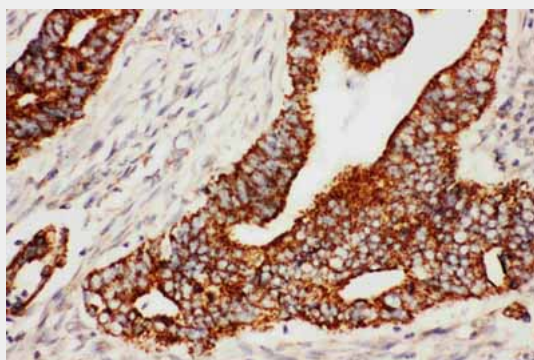
Anti-Secretogranin 3 Antibody - Images



Anti-Secretogranin 3 antibody, ABO10555, Western blottingWB: HELA Cell Lysate



Anti-Secretogranin 3 antibody, ABO10555, IHC(P)IHC(P): Rat Brain Tissue



Anti-Secretogranin 3 antibody, ABO10555, IHC(P)IHC(P): Human Rectal Cancer Tissue

Anti-Secretogranin 3 Antibody - Background

SCG3(secretogranin III) is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. Genetic variations in the SCG3 gene may influence the risk of obesity through possible regulation of hypothalamic neuropeptide secretion. SCG3 was the only gene within a haplotype block that contained rs3764220. SCG3 mRNA and immunoreactivity were detected in the paraventricular nucleus, lateral hypothalamic area, and arcuate nucleus, and the protein coexisted with orexin, melanin-concentrating hormone, neuropeptide Y, and proopiomelanocortin. SCG3

formed a granule-like structure together with these neuropeptides.