

Anti-Secretogranin 3 Antibody

Catalog # ABO10555

Product Information

Application	WB, IHC-P, IHC-F, ICC
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.

Additional Information

Gene ID	29106
Other Names	Secretogranin-3, Secretogranin III, SgIII, SCG3
Calculated MW	53005
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, - Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Human, Rat, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/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. .
Source	Eukaryota
Protein Name	Secretogranin-3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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.

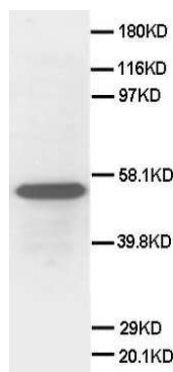
Protein Information

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.

Background

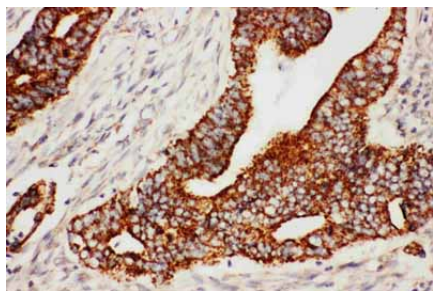
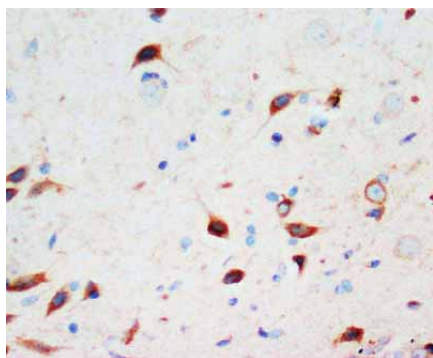
SCG3(secretogranin III) is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. Genetic variations in the SCG3 gene may influence the risk of obesity through possible regulation of hypothalamic neuropeptide secretion. SCG3 was the only gene within a haplotype block 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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.