10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Secretogranin V Rabbit pAb

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Catalog # AP54307

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P05408
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23730
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Secretogranin V
Epitope Specificity	1-100/212
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted. Note=Neuroendocrine and endocrine secretory granules.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Sg V is a 212 amino acid protein that is secreted by endocrine and neuroendocrine secretory granules and belongs to the 7B2 family. Existing as two alternatively spliced isoforms, Sg V interacts with PC2 and, via this interaction, functions as a molecular chaperone for PC2, effectively preventing its premature activation in regulated secretory pathways. More specifically, Sg V binds to PC2 and facilitates its transport from the endoplasmic reticulum to secretory compartments, thus allowing PC2 to be cleaved and activated during the correct phase of the regulated secretory pathway. Sg V is subject to post-translational sulfation on specific tyrosine residues and is underexpressed in medulloblastomas, suggesting a role in tumor suppression. The gene encoding Sg V maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome.

Additional Information

Gene ID	6447
Other Names	Neuroendocrine protein 7B2, Pituitary polypeptide, Secretogranin V, Secretogranin-5, Secretory granule endocrine protein I, N-terminal peptide, C-terminal peptide, SCG5, SGNE1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

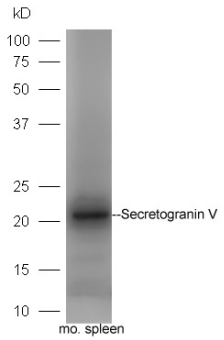
Protein Information

Name	SCG5
Synonyms	SGNE1
Function	Acts as a molecular chaperone for PCSK2/PC2, preventing its premature activation in the regulated secretory pathway. Binds to inactive PCSK2 in the endoplasmic reticulum and facilitates its transport from there to later compartments of the secretory pathway where it is proteolytically matured and activated. Also required for cleavage of PCSK2 but does not appear to be involved in its folding. Plays a role in regulating pituitary hormone secretion. The C-terminal peptide inhibits PCSK2 in vitro (PubMed:7913882). Also capable of preventing aggregation of IAPP/islet amyloid polypeptide (PubMed:24042052).
Cellular Location	Secreted {ECO:0000250|UniProtKB:P01165}. Note=Neuroendocrine and endocrine secretory granules {ECO:0000250|UniProtKB:P01165}

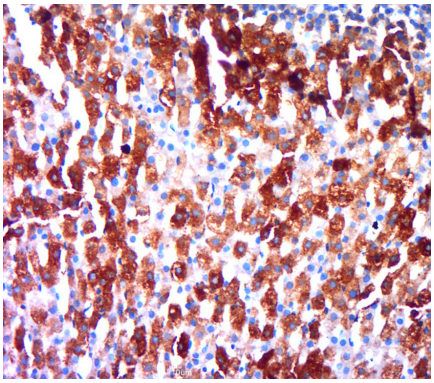
Background

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Images



Protein: spleen(mouse) lysate at 40ug;
Primary: rabbit Anti-Secretogranin V (AP54307) at 1:300;
Secondary: HRP conjugated Goat-Anti-rabbit IgG(AP54307-HRP) at 1: 5000;
Predicted band size:17/21 kD
Observed band size:21 kD



Paraformaldehyde-fixed, paraffin embedded (Rat adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Secretogranin V) Polyclonal Antibody, Unconjugated (AP54307)t 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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