

Product datasheet

Recombinant Human Secretogranin V protein ab100887

1 图像

概述

产品名称	重组人Secretogranin V蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli

氨基酸序列

Accession [P05408](#)

种属 Human

序列 MYSRTPDRV SEADIQRLLH GVMEQLGIAR
 PRVEYPAHQA MNLVGPQSIE GGAHEGLQHL
 GPFGNIPNIV AELTGDNIPK DFSEDQGYPD
 PPNPCPVGKT ADDGCLENTP DTAEFSREFQ
 LQHLSDPEH DYPGLGKWNK KLLYEKMKGG
 ERRKRRSVNP YLQGQRLDNV VAKKSVPHFS DEDKDPE
 LEH HHHHH

分子量 22 kDa including tags

氨基酸 27 to 212

标签 His tag C-Terminus

技术指标

Our [Abpromise guarantee](#) covers the use of **ab100887** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Mass Spectrometry SDS-PAGE
质谱法	MALDI-TOF
纯度	> 85 % SDS-PAGE. ab100887 is purified using conventional chromatography techniques.
形式	Liquid

制备和贮存

稳定性和存储

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Preservative: 0% None

Constituents: 20% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, 0.1mM PMSF, pH 8.0

常规信息

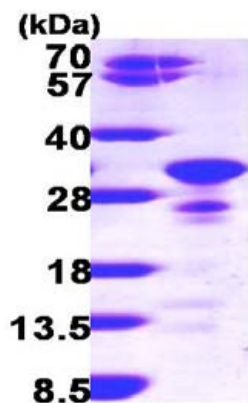
相关性

Known variously as APPG, 7B2 and neuroendocrine protein I, Secretogranin V was originally isolated from porcine pituitary in 1983. It soon became evident that Secretogranin V-like immunoreactants were present in many cell types from a variety of species, and it is now recognised to be widely distributed in neural and endocrine tissues. In the early 1990s full length (27kDa) Secretogranin V was shown to be a potent inhibitor of prohormone convertase PC2 activity, a subtilisin-like enzyme responsible for the proteolytic cleavage of many neuroendocrine precursor molecules, including proenkephalin, POMC and gastrin-17. mRNA distribution analysis revealed that in adult rat brain, expression of Secretogranin V mRNA was pan-neuronal, whereas PC2 mRNA was exclusively neuronal, but more restricted. PC2+/Secretogranin V- cells were not encountered in the adult, but were common in developing rat brain. These findings suggest that Secretogranin V may have intracellular functions other than PC2 maturation in certain cells, although some recent work shows a discordancy between mRNA expression and enzymic activity. The mechanism for PC2 maturation appears to involve pro-Secretogranin V binding to inactive pro-PC2 via its polyproline motif (116 PPNPCP 121) in the endoplasmic reticulum and chaperoning pro-PC2 to a later secretory pathway compartment where maturation of PC2 proceeds once pro-Secretogranin V is proteolytically processed by a furin-like convertase into a 21kDa fragment and a C-terminal peptide. It is the C-terminal peptide that potently inhibits maturation of pro-PC2 until the complex is subjected to a decreasing pH gradient along the secretory pathway. It seems likely that mature PC2 then cleaves the CT peptide at its internal lys-lys site. Secretogranin V knockout mice develop a severe Cushing's-like phenotype and exhibit multiple metabolic and hormonal abnormalities, indicating that Secretogranin V is required for activation of PC2 in vivo. Conversely, PC2-null mice appear to be viable.

细胞定位

Neuroendocrine and endocrine secretory granules.

图片



ab100887 (3 μ g) on an SDS-PAGE gel (15 %).

SDS-PAGE - Secretogranin V protein (ab100887)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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