Datasheet for ABIN3044066

anti-Somatostatin antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	Somatostatin (SST)
Binding Specificity:	AA 89-107, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Somatostatin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Somatostatin/SST Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Somatostatin, identical to the related rat and mouse sequences.
Sequence:	SANSNPAMAP RERKAGCKN
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Somatostatin/SST Antibody (ABIN3044066). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Somatostatin (SST)
Alternative Name:	SST (SST Products)
Target Type:	Chemical
Background:	Synonyms: Somatostatin,Growth hormone release-inhibiting factor,Somatostatin-28,Somatostatin-14,SST, Tissue Specificity: Widely expressed at a high level in skeletal muscle and at a weak level in thymus. Expressed in epithelial dysplasias and squamous cell carcinoma. . Background: SST (Somatostatin), also known as SMST, is a peptide hormone. Naylor et al. (1983) assigned the somatostatin gene to chromosome 3 by analyzing somatic cell hybrids with a polymorphic gene probe. Yacubova and Komuro (2002) examined the effects of somatostatin in cerebellar granule cells of early postnatal mice, because these cells express all 5 types of somatostatin receptors before the initiation of their migration. Saito et al. (2005) found that somatostatin modulated the proteolytic degradation of beta-amyloid catalyzed by neprilysin both in vitro and in vivo. Sequence Similarities: Belongs to the somatostatin family.
Molecular Weight:	83 kDa
UniProt:	P61278

Application Details

Application Notes:	Immunohistochemistry (Frozen Section), 0.5-1 µg/mL, Rat, Human, Mouse Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Rat, Mouse Western blot, 0.1-0.5 µg/mL, Human, Rat, Mouse 1. Naylor, S. L., Sakaguchi, A. Y., Shen, L.-P., Bell, G. I., Rutter, W. J., Shows, T. B. Polymorphic human somatostatin gene is located on chromosome 3. Proc. Nat. Acad. Sci. 80: 2686-2689, 1983. 2. Saito, T., Iwata, N., Tsubuki, S., Takaki, Y., Takano, J., Huang, S.-M., Suemoto, T., Higuchi, M., Saido, T. C. Somatostatin regulates brain amyloid beta-peptide A-beta-42 through modulation of proteolytic degradation. Nature Med. 11: 434-439, 2005. 3. Yacubova, E., Komuro, H. Stage-specific control of neuronal migration by somatostatin. Nature 415: 77-81, 2002.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P), IHC(F) and ICC.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Publications

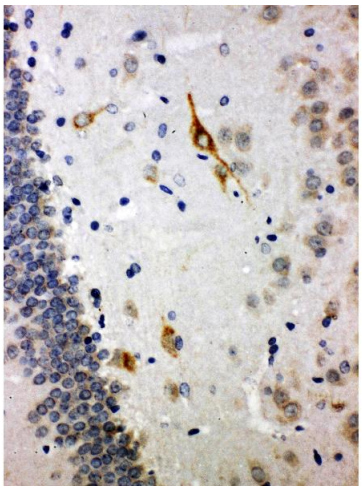
Product cited in:	Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of human embryonic stem cells into islet-like cells." in: **Biochemical and biophysical research communications**, Vol. 488, Issue 1, pp. 109-115, (2017) (PubMed). Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal hormones in the skin of the bullfrog Rana catesbeiana during periods of activity and hibernation." in: **Acta histochemica**, Vol. 116, Issue 8, pp. 1418-26, (2014) (PubMed). Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in the stomach and the small intestine of the African ostrich (Struthio camelus)." in: **Tissue & cell**, Vol. 45, Issue 6, pp. 363-6, (2013) (PubMed). Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are

Publications

expressed in the human thoracic duct." in: **Lymphology**, Vol. 44, Issue 1, pp. 21-8, (2011) (PubMed).

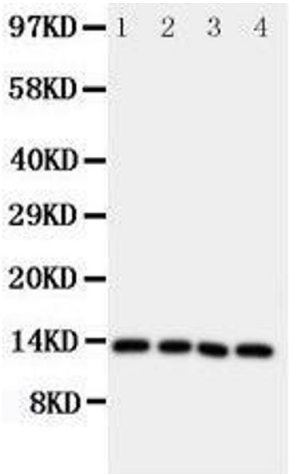
Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa." in: **World journal of gastroenterology**, Vol. 13, Issue 14, pp. 2094-9, (2007) (PubMed).

Images



Immunohistochemistry

Image 1. Anti-Somatostatin antibody, IHC(P) IHC(P): Rat Brain Tissue



Western Blotting

Image 2. Anti-Somatostatin antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: HELA Cell Lysate Lane 3: SW620 Cell Lysate Lane 4: MCF-7 Cell Lysate