

ARG43791 anti-Somatostatin antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Polyclonal antibody recognizes Somatostatin
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms
Tested Application	IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Somatostatin
Species	Human
Immunogen	Synthetic peptide corresponding to C-terminal region of Human Somatostatin (Somatostatin28).
Conjugation	Un-conjugated
Alternate Names	Somatostatin; Growth hormone release-inhibiting factor

Application Instructions

Application table	Application	Dilution
	IHC-Fr	0.5 - 2 µg/ml
	IHC-P	0.5 - 2 µg/ml
	WB	0.1 - 1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat Brain tissue	
Observed Size	~13-17 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

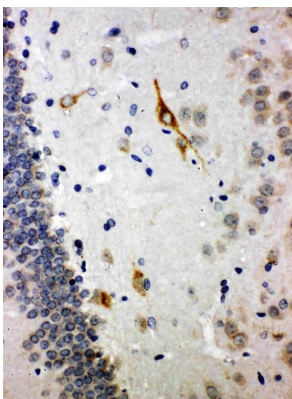
and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

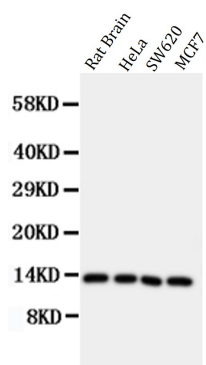
Gene Symbol	SST
Gene Full Name	somatostatin
Background	The hormone somatostatin has active 14 aa and 28 aa forms that are produced by alternate cleavage of the single preproprotein encoded by this gene. Somatostatin is expressed throughout the body and inhibits the release of numerous secondary hormones by binding to high-affinity G-protein-coupled somatostatin receptors. This hormone is an important regulator of the endocrine system through its interactions with pituitary growth hormone, thyroid stimulating hormone, and most hormones of the gastrointestinal tract. Somatostatin also affects rates of neurotransmission in the central nervous system and proliferation of both normal and tumorigenic cells. [provided by RefSeq, Jul 2008]
Function	<p>Somatostatin-14</p> <p>Inhibits the secretion of pituitary hormones, including that of growth hormone/somatotropin (GH1), PRL, ACTH, luteinizing hormone (LH) and TSH. Also impairs ghrelin- and GnRH-stimulated secretion of GH1 and LH; the inhibition of ghrelin-stimulated secretion of GH1 can be further increased by neuronostatin.</p> <p>Neuronostatin</p> <p>May enhance low-glucose-induced glucagon release by pancreatic alpha cells. This effect may be mediated by binding to GPR107 and PKA activation. May regulate cardiac contractile function. May compromise cardiomyocyte viability. In the central nervous system, may impair memory retention and may affect hippocampal excitability. May also have anxiolytic and anorexigenic effects. May play a role in arterial pressure regulation. May inhibit basal, but not ghrelin- or GnRH-stimulated secretion of GH1 or LH, but does not affect the release of other pituitary hormones, including PRL, ACTH, FSH or TSH. Potentiates inhibitory action of somatostatin on ghrelin-stimulated secretion of GH1, but not that on GnRH-stimulated secretion of LH. [UniProt]</p>
Research Area	Controls and Markers antibody; Developmental Biology antibody; Neuroscience antibody
Calculated Mw	13 kDa
PTM	Amidation; Cleavage on pair of basic residues; Disulfide bond
Cellular Localization	Secreted

Images



ARG43791 anti-Somatostatin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded sections of Rat brain tissue stained with ARG43791 anti-Somatostatin antibody.



ARG43791 anti-Somatostatin antibody WB image

Western blot: Rat Brain, HeLa, SW620, MCF7 lysate stained with ARG43791 anti-Somatostatin antibody.