

Rabbit Anti-Somatostatin 28/Cy5 Conjugated antibody

SL8877R-Cy5

Product Name	Anti-Somatostatin 28/Cy5
Chinese Name	Cy5 标记的生长抑素抗体
Alias	Growth hormone release inhibiting factor; SMS_HUMAN; SMST; SST; Somatostatin 28; Somatostatin28; Somatostatin-28; Somatostatin-28; somatostatin SS28.
Research Area	Cell biology Developmental biology Neurobiology Stem cells Growth factors and hormones
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit)
Applications	IF=1:200-800not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	3kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Somatostatin 28
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: Somatostatin is a regulatory hormone that is expressed throughout the body and inhibits the release of numerous secondary hormones by binding to high-affinity G protein-coupled somatostatin receptors. This cyclic

tetradecapeptide inhibits the secretion of many important hormones, including somatotropin (also designated growth hormone, or GH), insulin and glucagon. Somatostatin is found in both the hypothalamus and pancreas. Somatostatin is thought to be involved in the regulation of insulin synthesis. The hormone somatostatin has active 14 amino acid and 28 amino acid forms that are produced by alternate cleavage of the single preproprotein encoded by this gene. In the cerebellum, Somatostatin-14 and Somatostatin-28 are highly expressed at birth and in the adult stage, respectively. Somatostatin affects rates of neurotransmission in the central nervous system and proliferation of both normal and tumorigenic cells. The gene encoding Somatostatin maps to human chromosome 3q28.

Function:

The cyclic tetradecapeptide somatostatin is widely distributed throughout the body and is an important regulator of endocrine and nervous system function. It exerts its biologic actions by binding to specific high affinity receptors on the cell surface. Somatostatin inhibits the release of somatotropin. Somatostatin has also been shown in sympathetic nerves, mucosal cells, myenteric nerves of the gastrointestinal tract, salivary glands and in some parafollicular cells of the thyroid. Somatostatin positive cells may also be present in medullary thyroid carcinomas, C cell hyperplasia, thymic and lung tumors and pulmonary small cell carcinomas.

Subcellular Location:

Secreted.

Similarity:

Belongs to the somatostatin family.

Database links:

[Entrez Gene: 396279](#) Chicken

[Entrez Gene: 280932](#) Cow

[Entrez Gene: 6750](#) Human

[Entrez Gene: 20604](#) Mouse

[Entrez Gene: 24797](#) Rat

[Olim: 182450](#) Human

[SwissProt: P33094](#) Chicken

[SwissProt: P26917](#) Cow



[SwissProt: P61278](#) Human

[SwissProt: P60041](#) Mouse

[SwissProt: P60042](#) Rat

[Unigene: 12409](#) Human

[Unigene: 34418](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.