

SSTR3 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1919a**Specification****SSTR3 Antibody - Product Information**

Application	E, WB, FC
Primary Accession	P32745
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	45.8kDa KDa

Description

This gene encodes a member of the somatostatin receptor protein family. Somatostatins are peptide hormones that regulate diverse cellular functions such as neurotransmission, cell proliferation, and endocrine signaling as well as inhibiting the release of many hormones and other secretory proteins. Somatostatin has two active forms of 14 and 28 amino acids. The biological effects of somatostatins are mediated by a family of G-protein coupled somatostatin receptors that are expressed in a tissue-specific manner. Somatostatin receptors form homodimers and heterodimers with other members of the superfamily as well as with other G-protein coupled receptors and receptor tyrosine kinases. This protein is functionally coupled to adenylyl cyclase. Alternate splicing results in multiple transcript variants.

Immunogen

Purified recombinant fragment of human SSTR3 (AA: 1-43) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide.

SSTR3 Antibody - Additional Information

Gene ID 6753

Other Names

Somatostatin receptor type 3, SS-3-R, SS3-R, SS3R, SSR-28, SSTR3

Dilution

E~~1/10000

WB~~1/500 - 1/2000

FC~~1/200 - 1/400

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SSTR3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SSTR3 Antibody - Protein Information

Name SSTR3

Function

Receptor for somatostatin-14 and -28. This receptor is coupled via pertussis toxin sensitive G proteins to inhibition of adenylyl cyclase.

Cellular Location

Cell membrane; Multi-pass membrane protein. Note=Internalized into endoplasmic vesicles upon somatostatin-stimulation.

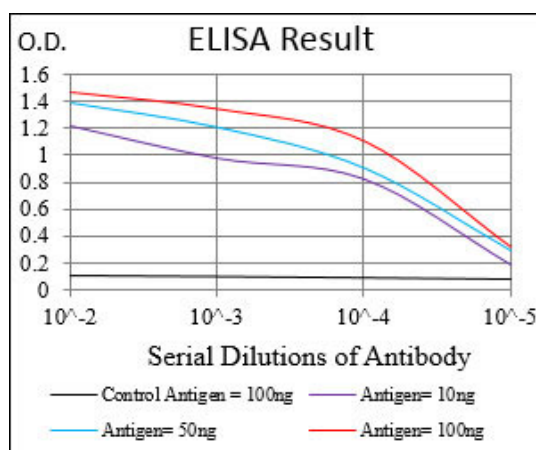
Tissue Location

Brain, pituitary and pancreas.

SSTR3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



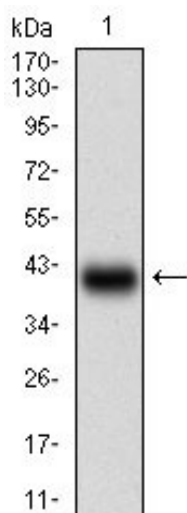


Figure 1: Western blot analysis using SSTR3 mAb against human SSTR3 (AA: 1-43) recombinant protein. (Expected MW is 30.2 kDa)

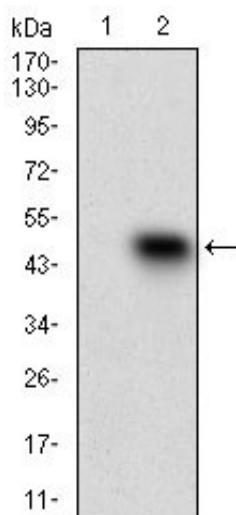


Figure 2: Western blot analysis using SSTR3 mAb against HEK293 (1) and SSTR3 (AA: 1-43)-hlgGfC transfected HEK293 (2) cell lysate.

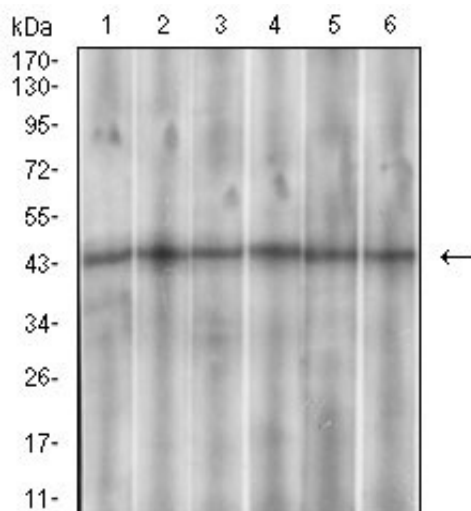


Figure 3: Western blot analysis using SSTR3 mouse mAb against Hela (1), PANC-1 (2), PC-12 (3), SK-N-SH (4), U937 (5) and HepG2 (6) cell lysate.

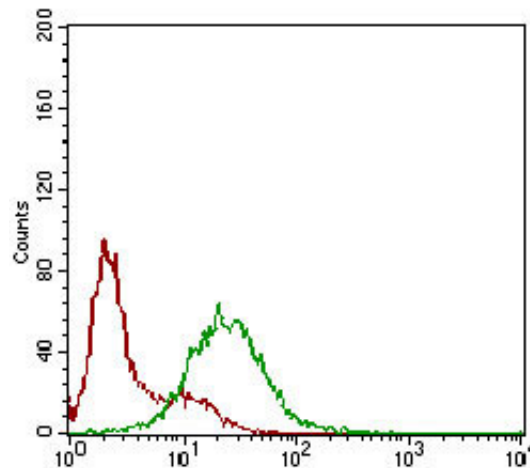


Figure 4: Flow cytometric analysis of Hela cells using SSTR3 mouse mAb (green) and negative control (red).

SSTR3 Antibody - Background

This locus encodes the transforming growth factor (TGF)-beta type III receptor. The encoded receptor is a membrane proteoglycan that often functions as a co-receptor with other TGF-beta receptor superfamily members. Ectodomain shedding produces soluble TGFBR3, which may inhibit TGFB signaling. Decreased expression of this receptor has been observed in various cancers. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. ; ;

SSTR3 Antibody - References

1. J Gastroenterol Hepatol. 2008 Mar;23(3):424-9.
2. Cancer Biol Ther. 2004 Aug;3(8):726-30.