

Datasheet: MCA5924

Description:	MOUSE ANTI HUMAN SOMATOSTATIN RECEPTOR 1
Specificity:	SOMATOSTATIN RECEPTOR 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	sstr1
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin	■			1/100 - 1/250
ELISA			■	
Immunoprecipitation			■	
Western Blotting		■		

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1mg/ml
Immunogen	Synthetic peptide, sequence CKSRAYSVEDFQPENLE
External Database	UniProt:

Entrez Gene:[6751](#)

SSTR1

[Related reagents](#)**Specificity**

Mouse anti Human Somatostatin receptor 1, clone sstr1 recognizes the type I somatostatin receptor also known as SRIF-2. The human somatostatin receptor type 1 is a 391 amino acid, ~50 kDa multi pass transmembrane glycoprotein belonging to the G-protein coupled receptor 1 family.

Somatostatin (SST) is a peptide hormone with wide ranging inhibitory effects on hormone secretion and cell proliferation. It is produced as a large preproSST precursor molecule that is cleaved to yield one of two active forms of the peptide: a 14 amino acid peptide (SST-14), or a 28 amino acid peptide (SST-28). The inhibitory effects of SST on hormone release and cell growth have made them candidates for the treatment of cancer and neuroendocrine disorders. Natural SSTs have very short half-lives, which led to the development of more stable synthetic derivatives, such as [octreotide](#) and [lanreotide](#), both in common clinical use.

The effects of SST are mediated via five distinct SST receptors (SSTRs). The receptors have similar affinities for natural SST-14 and SST-28, but there are marked differences in affinities towards the synthetic analogues. Somatostatin receptors are expressed by various tissues, notably neuronal, endocrine, gastrointestinal and immune cells, as well as certain tumours, with tumours often expressing more than one subtype in different combinations.

Clone sstr1 specifically recognises SSTR type 1, but none of the other SSTR subtypes. Bio-Rad also has antibodies to other [somatostatin receptors](#) available

Histology Positive Control Tissue

Human pancreas

References

1. Schmid, H.A. *et al.* (2012) Monoclonal antibodies against the human somatostatin receptor subtypes 1-5: development and immunohistochemical application in neuroendocrine tumors. [Neuroendocrinology. 95 \(3\): 232-47.](#)
2. Ozkaya, H.M. *et al.* (2018) Germline mutations of aryl hydrocarbon receptor-interacting protein (AIP) gene and somatostatin receptor 1-5 and AIP immunostaining in patients with sporadic acromegaly with poor versus good response to somatostatin analogues. [Pituitary. Feb 17 \[Epub ahead of print\].](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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