

Datasheet: MCA5922

Description:	MOUSE ANTI HUMAN SOMATOSTATIN RECEPTOR 4
Specificity:	SOMATOSTATIN RECEPTOR 4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	sstr4
Isotype:	IgG2a
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	▪			
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
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 CQQEALQPEPGRKRIPLT.

External Database

Links

UniProt:

[P31391](#) [Related reagents](#)

Entrez Gene:

[6754](#) SSTR4 [Related reagents](#)

Specificity

Mouse anti Human Somatostatin Receptor 4 antibody, clone sstr4 recognizes human somatostatin receptor 4, a 388 amino acid multi pass transmembrane glycoprotein freceptor for somatostatin-14. 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.

Mouse anti Human Somatostatin Receptor 4 antibody, clone sstr4 specifically recognises SSTR type 4, but none of the other SSTR subtypes. Bio-Rad also has antibodies to SSTR subtypes 1, 3 and 5 ([MCA5924](#), [MCA5921](#), [MCA5923](#)) available.

Histology Positive Control Tissue

Human lung tissue

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. Leijon, H. *et al.* (2018) Variable somatostatin receptor subtype expression in 151 primary pheochromocytomas and paragangliomas. [Hum Pathol. Dec 07 \[Epub ahead of print\].](#)
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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.

Guarantee

12 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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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