

Store at  
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#11830

# SSTR1 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	R	Endogenous	40, 80	Rabbit	#P30872	6751

## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

SSTR1 Antibody recognizes endogenous levels of total SSTR1 protein.

## Species predicted to react based on 100% sequence homology

Human, Mouse, Monkey

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val365 of human SSTR1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

Somatostatin receptors are part of the super family of G protein-coupled receptors. Five genes encoding six different somatostatin receptor subtypes (SSTR1, SSTR2A, SSTR2B, SSTR3, SSTR4, and SSTR5) have been cloned (1). Somatostatin receptors are activated by somatostatin, a neuropeptide that acts as a neurotransmitter in the brain that regulates hormone secretion from endocrine tissues (2). Somatostatin receptors are found to be highly expressed on human neuroendocrine tumors (3). mRNA expression data and immunohistochemical studies indicate high expression of SSTR1 in pituitary and gastroenteropancreatic tumor, renal, colorectal and breast cancer, meningioma, glioma neuroblastoma, and pheochromocytoma (3).

## Background References

1. Patel, Y.C. (1999) *Front Neuroendocrinol* 20, 157-98.
2. Tulipano, G. and Schulz, S. (2007) *Eur J Endocrinol* 156 Suppl 1, S3-11.
3. Hofland, L.J. and Lamberts, S.W. (2003) *Endocr Rev* 24, 28-47.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**R:** Rat

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