

Anti-SST/Somatostatin 28 Antibody [JE43-52]

HA721460



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Cynomolgus monkey, Pig
Applications:	IHC-P, IHC-Fr, IF-Tissue, mIHC, VIVIT
Molecular Wt:	Predicted band size: 13 kDa
Clone number:	JE43-52

Description: Somatostatin, also known as growth hormone-inhibiting hormone (GHIH) or by several other names, is a peptide hormone that regulates the endocrine system and affects neurotransmission and cell proliferation via interaction with G protein-coupled somatostatin receptors and inhibition of the release of numerous secondary hormones. Somatostatin inhibits insulin and glucagon secretion. Somatostatin has two active forms produced by the alternative cleavage of a single preproprotein: one consisting of 14 amino acids, the other consisting of 28 amino acids. Among the vertebrates, there exist six different somatostatin genes that have been named SS1, SS2, SS3, SS4, SS5 and SS6. Zebrafish have all six. The six different genes, along with the five different somatostatin receptors, allow somatostatin to possess a large range of functions. Humans have only one somatostatin gene, SST.

Immunogen: Synthetic peptide within Human Somatostatin 28 aa 67-116 / 116.

Positive control: Human pancreas tissue, mouse pancreas tissue, rat pancreas tissue.

Subcellular location: Secreted.

Database links: SwissProt: P61278 Human | P60041 Mouse | P60042 Rat

Recommended Dilutions:

IHC-P	1:1,000
IHC-Fr	1:500
IF-Tissue	1:500-1:1,000
mIHC	1:3,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

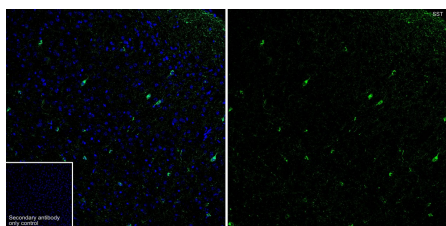
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

**Fig1:** Application: IHC-Fr

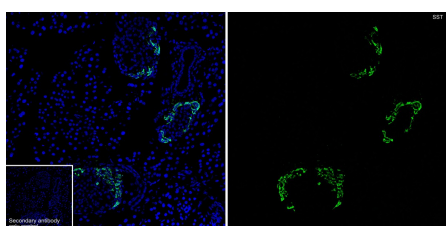
Species: Mouse

Site: Cerebral cortex

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

**Fig2:** Application: IHC-Fr

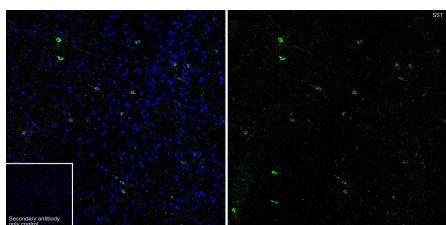
Species: Mouse

Site: Pancreas

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

**Fig3:** Application: IHC-Fr

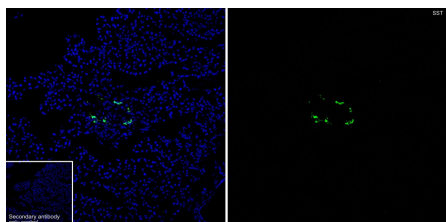
Species: Rat

Site: Cerebral cortex

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

**Fig4:** Application: IHC-Fr

Species: Rat

Site: Pancreas

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

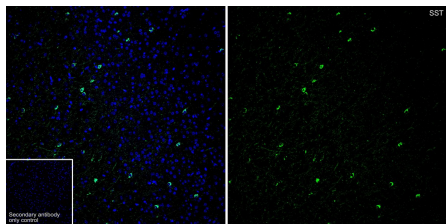
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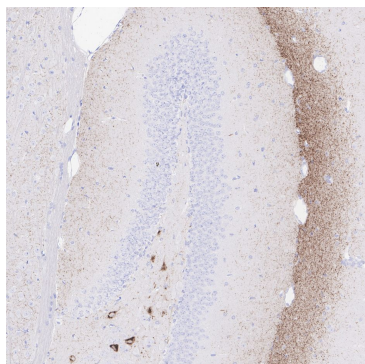
**Fig5:** Application: IF-tissue

Species: Mouse

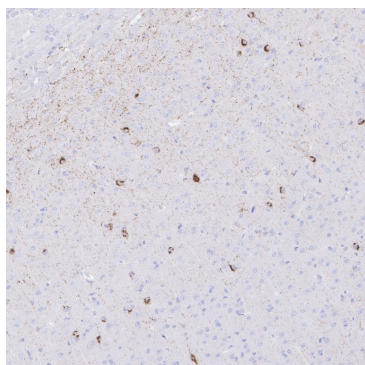
Site: Cerebral cortex

Sample: Paraffin-embedded section

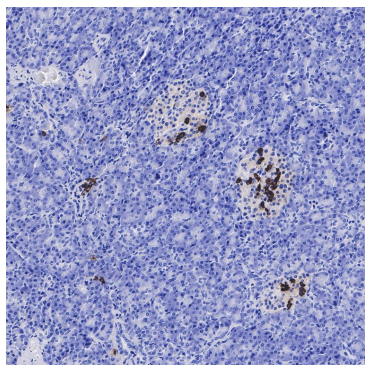
Antibody concentration: 1/1,000

**Fig6:** Immunohistochemical analysis of paraffin-embedded mouse hippocampus tissue with Rabbit anti-SST/Somatostatin 28 antibody (HA721460) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721460) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Fig7:** Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue with Rabbit anti-SST/Somatostatin 28 antibody (HA721460) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721460) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Fig8:** Immunohistochemical analysis of paraffin-embedded human pancreas tissue with Rabbit anti-SST/Somatostatin 28 antibody (HA721460) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721460) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

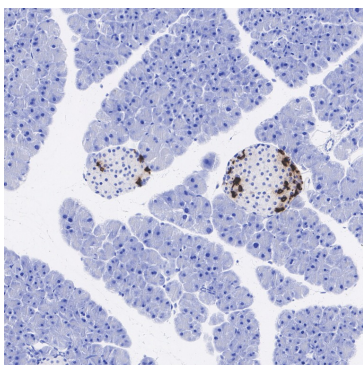


Fig9: Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue with Rabbit anti-SST/Somatostatin 28 antibody (HA721460) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721460) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

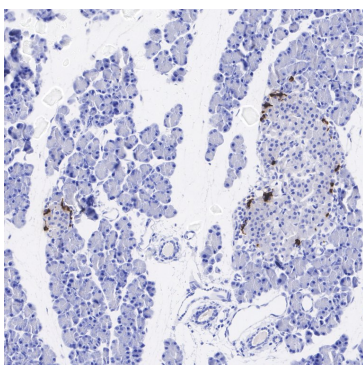


Fig10: Immunohistochemical analysis of paraffin-embedded rat pancreas tissue with Rabbit anti-SST/Somatostatin 28 antibody (HA721460) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721460) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Ampofo E et al. Regulatory Mechanisms of Somatostatin Expression. *Int J Mol Sci*. 2020 Jun
2. Duque-Díaz E et al. Distribution of somatostatin-28 (1-12), calcitonin gene-related peptide, and substance P in the squirrel monkey brainstem: an immunocytochemical study. *Anat Sci Int*. 2019 Jan

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