Somatostatin-28

Cat.No. 366 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>100 µl antiserum, lyophilized. For reconstitution add 100 µl H₂O, then aliquot and store at -20°C until use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>WB: not tested yet</td>
</tr>
<tr>
<td></td>
<td>IP: not tested yet</td>
</tr>
<tr>
<td></td>
<td>ICC: 1 : 500</td>
</tr>
<tr>
<td></td>
<td>IHC: 1 : 500</td>
</tr>
<tr>
<td></td>
<td>IHC-P/FFPE: 1 : 500</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide corresponding to AA 89 to 100 from mouse Somatostatin (UniProt Id: P60041)</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Reacts with: human (P61278), rat (P60042), mouse (P60041). Other species not tested yet.</td>
</tr>
<tr>
<td>Specificity</td>
<td>This antibody preferentially recognizes somatostatin-28. It only shows minor cross-reactivity to the unprocessed precursor protein and does not detect somatostatin-14.</td>
</tr>
</tbody>
</table>

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Somatostatin, also referred to as SST, growth hormone-inhibiting hormone or GHIH, is a peptide hormone that regulates the endocrine system and affects neurotransmission and cell proliferation via interaction with G protein-coupled somatostatin receptors. It inhibits the secretion of many important hormones, including insulin, glucagon and somatotropin (also designated growth hormone, or GH). Somatostatin has two forms, active 14 amino acid and 28 amino acid. They are produced by alternative cleavage of the single precursor protein encoded by this gene.

Selected References SYSY Antibodies

Phase-specific surround suppression in mouse primary visual cortex correlates with figure detection behavior based on phase discontinuity.
Li F, Jiang W, Wang TY, Xie T, Yao H
Neuroscience (2018) . . . IHC; tested species: mouse

Supramammillary Nucleus Afferents to the Dentate Gyrus Co-release Glutamate and GABA and Potentiate Granule Cell Output.
Hashimotodani Y, Karube F, Yanagawa Y, Fujimura F, Kano M

Selected General References
Somatostatin and its receptors from fish to mammals.

Somatostatin-28(1-12)-NPAMAP sequence: an essential helical-promoting motif governing prosomatostatin processing at mono- and dibasic sites.

Interrelationships between somatostatin sst2A receptors and somatostatin-containing axons in rat brain: evidence for regulation of cell surface receptors by endogenous somatostatin.
Dournaud P, Boudin H, Schonbrunn A, Tannenbaum GS, Beaudet A

Somatostatin antisense oligodeoxynucleotide-mediated stimulation of lymphocyte proliferation in culture.
Agui2a MC, Rodriguez AM, Aguila-Mansilla HN, Lee WT

All five cloned human somatostatin receptors (hSSTR1-5) are functionally coupled to adenylly cyclase.
Patel YC, Greenwood MT, Warszynska A, Pimenta R, Srikant CB

Site-specific mutagenesis identifies amino acid residues critical in prohormone processing.

Sequence of the human somatostatin i gene.
Shen LP, Rutter WJ