Synapsin 1/2 - 106 006
Peripheral synaptic vesicle proteins; substrate for several protein kinases
Polyclonal chicken IgY fraction
330.00 USD

select country for shop
Cat. No. 106 006
200 µl antibody, lyophilized. For reconstitution add 200 µl H₂O, then aliquot and store at -20°C until use.
Applications WB: 1 : 1000 (AP staining) blot
IP: not tested yet
ICC: 1 : 500 image
IHC: 1 : 500 image
IHC-P/FFPE: 1 : 500 image
Synthetic peptide corresponding to AA 2 to 28 from rat Synapsin1 (UniProt Id: P09951)
Reacts with: human (P17600 Q92777), rat (P09951 Q63537), mouse (O88935)

Fig 1

Hoechst 33258
Anti-tubulin Alexa 568
F-actin phalloidin Alexa 488

100 µm

myelin sheath

Tubulin microtubules

Axon

Dendrites

Synaptic termini

Cell body (soma)

(nucleus)

20 µm

100 µm

100 µm

Dendrite

Nucleus

Axon

Synapsin

MAP-2
Myelinated axon, Neuron, Dendrites, Astrocyte feet, Blood vessel, Neuron body, Astrocyte.
**Key:**

- GlcNAc
- GalNAc
- Gal
- Glc
- Man
- Neu A
- Fuc
- Glc A
- Xylose

**Mucins**

- 6-Sulpho Le

---

**Asparagine**

**Serine**

**Serine**

**KS-I**

**KS-II**

**KS-II within CS2 region**

* non-sulphated  ** mono-sulphated  *** di-sulphated

---

**L-Fucose side chains**

- sequence of *H forskali* Fuc-CS with a composition of 15% 4S, 46% 3,4S, 39% 2,4S

---

**Compositions of L-Fucose side chains on Fuc-CSs**

<table>
<thead>
<tr>
<th>Fucose side chain</th>
<th>4S</th>
<th>3,4 diS</th>
<th>2,4 diS</th>
<th>Sea cucumber species</th>
</tr>
</thead>
<tbody>
<tr>
<td>side chain</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Positions (% of total)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>10</td>
<td>85</td>
<td><em>Stichopus hermanii</em></td>
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<tr>
<td></td>
<td>ND</td>
<td>80</td>
<td>20</td>
<td><em>Cucumaria japonica</em></td>
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<tr>
<td></td>
<td>15</td>
<td>46</td>
<td>39</td>
<td><em>Holothuria forskali</em></td>
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<tr>
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<td>10</td>
<td>50</td>
<td>20</td>
<td><em>Xucumaria frondosa</em></td>
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<tr>
<td></td>
<td>ND</td>
<td>20</td>
<td>60</td>
<td><em>Apostichopus japonicus</em></td>
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<tr>
<td></td>
<td>ND</td>
<td>80</td>
<td>20</td>
<td><em>Actinopyga mauritiana</em></td>
</tr>
</tbody>
</table>

Monosulphated data not determined (ND) in some cases

---

**g.**

**Core CS disaccharide**

**Fuc-CS trisaccharide**

**CS-A**

**CS-E**
Key:

- Integrin
- Laminin
- Collagen
- FN-like repeats
- CS proteoglycan
- Link protein
- HAS
- Leucine rich repeats
- Ig-like domain
- CRD domain
- SEMA domain
- Thrombospondin
- FGFR
- SEMA domain
- Plexin
- Nrp1
- HA
- Plasma membrane lipid bilayer

1. Neural growth
2. Neural outgrowth
3. Cellular proliferation, differentiation, cell survival
4. Chemorepulsive Nerve guidance cues
Cross-talk

EphA4
EphB2
EGFR

Key:
- Disulphide stabilised D1 globular domains
- NG2 D2 core repeat modules
- NG2 TM domain
- PR-PKCa domain
- PDZ-ERK-1, 2
- CS side chain
- Progranulin dimer
- Plasma membrane lipid bilayer
- Phosphorylation site
- ED extracellular domain
- TMD transmembrane domain
- CD cytoplasmic domain
AGE advanced glycation end products
RAGE receptor for advanced glycation end products

VC1 complex

V domain

C1 domain

C2 domain

Transmembrane domain

Cytoplasmic tail

RAGE Extracellular domain

glycan Interactive region

plasma membrane