ZnT 3

Cat.No. 197 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution: 100 µl antiserum, lyophilized. For reconstitution add 100 µl H₂O, then aliquot and store at -20°C until use.

Storage: 

Applications:
- WB: 1:1000 (AP staining)
- IP: yes
- ICC: 1:500
- IHC: 1:500
- IHC-P/FFPE: 1:500

Immunogen: Recombinant protein corresponding to AA 2 to 75 from mouse ZnT3 (UniProt Id: P97441)

Reactivity:
- Reacts with: rat (Q6QIX3), mouse (P97441).
- No signal: zebrafish.
- Other species not tested yet.

Specificity: Specific for ZnT3.

Matching control: 197-0P

Selected General References

Selected References SYSY Antibodies

The essential micronutrient zinc plays an important role in many biological processes like growth, development and reproduction. It is found in the active site of many enzymes, where ionization, polarization or replacement of Zn²⁺ bound water is involved in catalytic reactions. As a charged ion Zn²⁺ cannot cross biological membranes by simple diffusion and must be transported into or out of cells by specialized transport mechanisms. Four Zn transporter proteins, ZnT 1 to ZnT 4, have been cloned. All of them contain several transmembrane domains and a histidine rich intracellular loop. In the central nervous system Zn plays important roles in synaptic function and plasticity. At synapses Zn is stored in synaptic vesicles by a mechanism depending on the integral membrane protein ZnT 3.

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