**Data Sheet**

**Reconstitution/Storage**
- 50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Albumin and azide were added for stabilization. For reconstitution add 50 µl H₂O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.

**Applications**
- **WB**: 1 : 100 up to 1 : 1000 (AP staining)
- **IP**: not tested yet
- **ICC**: 1 : 100 up to 1 : 200 (see remarks)
- **IHC**: 1 : 100 up to 1 : 200
- **IHC-P/FFPE**: not tested yet

**Immunogen**
- Recombinant protein corresponding to AA 46 to 133 from rat Synaptotagmin7 (UniProt ID: Q62747)

**Reactivity**
- Reacts with: human (O43581), rat (Q62747), mouse (Q9R0N7).
- Other species not tested yet.

**Specificity**
- Recognizes synaptotagmin 7 (45 kDa) and splice variants C, D, E. (K.O. verified)

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

**Synaptotagmin 7** is a proposed regulator of Ca²⁺ dependent exocytosis like neurotransmitter release. It occurs in several splicing variants which are expressed in a developmentally regulated pattern in brain. The distinct roles for the alternative splicing isoforms have not yet been determined. Synaptotagmin 7 shows Ca²⁺ dependent oligomerization via its own C2 domains leading to the formation of large linear structures which reside at the fusion site of vesicles and plasma membrane. These oligomers may be involved in the modulation of Ca²⁺ dependent exocytosis by opening or dilating fusion pores.

**Selected References SYSY Antibodies**