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# Syt1 Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14399

## Product Information

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| **Application** | WB |
| **Primary Accession** | P21707 |
| **Other Accession** | NM_001033680, NP_001028852 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine |
| **Predicted** | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 47399 |

## Additional Information

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| **Gene ID** | 25716 |
| **Alias Symbol** | P65 |
| **Other Names** | Synaptotagmin-1, Synaptotagmin I, SytI, p65, Syt1 |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-Syt1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | Syt1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | Syt1 {ECO:0000312\|RGD:3803} |
| **Function** | Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed:2333096, PubMed:30107533). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes. |

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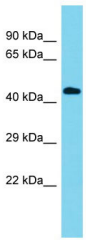
| **Cellular Location** | Cytoplasmic vesicle, secretory vesicle membrane; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane; Single-pass membrane protein. Cytoplasm |
| **Tissue Location** | Expressed in the brain (at protein level) (PubMed:17190793). Predominantly expressed in rostral, phylogenetically younger brain regions, and in some endocrine tissues |

## References


Perin M.S.,et al.Nature 345:260-263(1990).
Craxton M.A.,et al.BMC Genomics 5:43-43(2004).
Sunitha S.S.,et al.Submitted (APR-2006) to the EMBL/GenBank/DDBJ databases.
Lubec G.,et al.Submitted (APR-2007) to UniProtKB.
Schivell A.E.,et al.J. Biol. Chem. 271:27770-27775(1996).


## Images




Host: Rabbit
Target Name: Syt1
Sample Tissue: Rat Stomach lysates
Antibody Dilution: 1.0µg/ml