

ARG52436 anti-Synaptotagmin 1 antibody

Package: 50 μl Store at: -20°C

Summary

| Product Description | Rabbit Polyclonal antibody recognizes Synaptotagmin 1 |
|---------------------|--|
| Tested Reactivity | Rat |
| Predict Reactivity | Hu, Ms, Bov, Chk, NHuPrm |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | lgG |
| Target Name | Synaptotagmin 1 |
| Species | Rat |
| Immunogen | Synthetic peptide corresponding to amino acid residues specific to synaptotagmin 1 conjugated to KLH |
| Conjugation | Un-conjugated |
| Alternate Names | P65; Synaptotagmin I; SytI; SVP65; SYT; p65; Synaptotagmin-1 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|---|----------|
| | WB | 1:1000 |
| Application Note | Specific for ~65k synaptotagmin I protein. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

| Form | Liquid |
|---------------------|---|
| Purification | Affinity Purified |
| Buffer | 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol |
| Stabilizer | 0.1 mg/ml BSA, 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| Database | links |
|----------|---------|
| Database | 1111113 |

GeneID: 25716 Rat

| | Swiss-port # P21707 Rat |
|----------------|--|
| Gene Symbol | SYT1 |
| Gene Full Name | synaptotagmin I |
| Background | Synaptotagmin 1 is a synaptic vesicle membrane glycoprotein that is widely expressed throughout the CNS and is generally thought to act as the Ca2+ sensor in the regulation of exocytosis and neurotransmitter release (Littleton and Bellen 1995). Recent studies indicate that synaptotagmin's Ca2+ mediated binding of SNAP25 is essential for the Ca2+ dependent triggering of membrane fusion (Zhang et al., 2002). It has recently been demonstrated that discrete residues within the c(2)b binding domain of synaptotagmin 1 independently specify endocytic rate and synaptic vesicle size (Poskanzer et al., 2006). |
| Research Area | Cancer antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody |
| Calculated Mw | 48 kDa |

Images

