ELK Biotechnology

# SYN3 rabbit pAb

## Cat No.:ES10327

**For research use only**

### Overview

| | |
|---|---|
| **Product Name** | SYN3 rabbit pAb |
| **Host species** | Rabbit |
| **Applications** | WB;ELISA |
| **Species Cross-Reactivity** | Human;Rat;Mouse |
| **Recommended dilutions** | WB 1:500-2000 ELISA 1:5000-20000 |
| **Immunogen** | Synthesized peptide derived from part region of human protein. AA range 530-580 |
| **Specificity** | SYN3 Polyclonal Antibody detects endogenous levels of protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Storage** | Store at -20℃. Avoid repeated freeze-thaw cycles. |
| **Protein Name** | Synapsin-3 (Synapsin III) |
| **Gene Name** | SYN3 |
| **Cellular localization** | Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Peripheral membrane protein localized to the cytoplasmic surface of synaptic vesicles. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Clonality** | Polyclonal |
| **Concentration** | 1 mg/ml |
| **Observed band** | 63kD |
| **Human Gene ID** | 8224 |
| **Human Swiss-Prot Number** | O14994 |
| **Alternative Names** | |
| **Background** | This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated |

in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. The protein encoded by this gene shares the synapsin family domain model, with domains A, C, and E exhibiting the highest degree of conservation. The protein contains a unique domain J, located between domains C and E. Based on this gene's localization to 22q12.3, a possible schizophrenia susceptibility locus, and the established neurobiological roles of the synapsins, this family member may represent a candidate gene for schizophrenia. The TIMP3 gene is located within an intron of this gene and is transcribed in the opposite directi