



# SYN3 Monoclonal Antibody

Catalog No	BYmab-06251
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	SYN3
Protein Name	Synapsin-3 (Synapsin III)
Immunogen	Synthesized peptide derived from part region of human protein. AA range 530-580
Specificity	SYN3 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	63kD
Cell Pathway	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Peripheral membrane protein localized to the cytoplasmic surface of synaptic vesicles.
Tissue Specificity	Neuron specific. Detected predominantly in brain.
Function	function:May be involved in the regulation of neurotransmitter release and synaptogenesis.,miscellaneous:Regulated by calcium. Calcium inhibits ATP binding to the C-domain.,similarity:Belongs to the synapsin family.,subcellular location:Peripheral membrane protein localized to the cytoplasmic surface of synaptic vesicles.,subunit:Interacts with CAPON.,tissue specificity:Neuron specific. Detected predominantly in brain.,
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

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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 direction.

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images