

#### OriGene Technologies, Inc.

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# Product datasheet for TA389221

## SYN1 Mouse Antibody [Clone ID: M365]

### **Product data:**

Clone Name:M365Applications:IC, WBRecommended DilutionWB: 1:1000 iCC: 1:50Reactivity:Human, Rat, MouseHost:MouseIsotype:Igf1Isotype:Ione M365 was generated from a sequence corresponding to amino acids in the C-terminal region of mouse synapsin I. This sequence has high homology to human and rat synapsin I.Specificity:Dis antibody detects an 80 kDa* protein corresponding to the molecular mass of Synapsin I.Formulation:PSS + 1 mg/mI BSA, 0.05% NaN3 and 50% glycerolPurification:Picteri AP UnifiedConjugation:UnconjugatedStorage:Corage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.	Product Type:	Primary Antibodies
Recommended Dilution:WB: 1:1000 ICC: 1:50Reactivity:Human, Rat, MouseHost:MouseIsotype:IgG1Immunogen:Clone M365 was generated from a sequence corresponding to amino acids in the C-terminal region of mouse synapsin I. This sequence has high homology to human and rat synpasin I.Specificity:This antibody detects an 80 kDa* protein corresponding to the molecular mass of Synapsin I on SDS-PAGE immunoblots of adult mouse brain.Formulation:PBS + 1 mg/mI BSA, 0.05% NaN3 and 50% glycerolConcentration:Iot specificPurification:Protein A PurifiedConjugated:UnconjugatedStorage:Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to	Clone Name:	M365
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Storage:Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to	Purification:	Protein A Purified
	Conjugation:	Unconjugated
	Storage:	
Stability:After date of receipt, stable for at least 1 year at -20°C.	Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size: 80	Predicted Protein Size:	80
	Database Link:	<u>P17600</u>
Detabased Links D17000	Database LINK:	<u>P1/600</u>



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#### **GRIGENE** SYN1 Mouse Antibody [Clone ID: M365] – TA389221

Background: Synapsins are important peripheral membrane proteins involved in synaptic vesicle release during neurotransmission between neurons. Several synapsin variants are generated by alternative splicing of the mRNA from three different genes: synapsin I, II, and III. Synapsins bind to synaptic vesicles via their conserved N-terminal domains. Regulation of synapsins may occur through PKA and CAM kinase I phosphorylation. This regulation occurs concomitantly with membrane excitation and neurotransmitter release into the synaptic cleft. Synapsins bundle actin filaments and interact with multiple calcium binding proteins. Thus, synapsins may crosslink vesicles or other proteins to actin filaments at the presynaptic terminal. In addition, synapsins may interact with each other, since synapsin III has been shown to form heteromultimers with both synapsin I and synapsin II. All synapsins contain a central ATP binding domain and variable C-terminal domains that facilitate distinct regulatory functions.

**Note:** Protein G purified tissue culture supernatant.

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