

Anti-Synapsin I (C-terminal region) Antibody

Catalog # AN1983

Product Information

Application	WB, ICC
Primary Accession	O88935
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M365
Calculated MW	74097

Additional Information

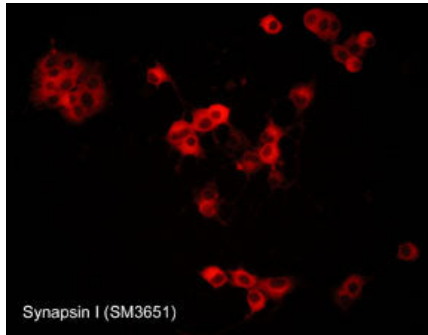
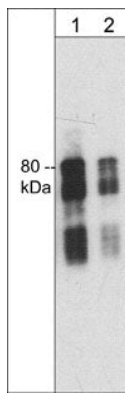
Gene ID	20964
Other Names	SYN1, SYN1a, SYN1b, SynapsinI, SYNI
Dilution	WB~~1:1000 ICC~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Synapsin I (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

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.

Images

Western blot of mouse brain lysate. The blot was probed with mouse monoclonal anti-Synapsin I (C-terminal region) antibody at 1:250 (lane 1) or 1:1000 (lane 2).



Immunocytochemical labeling of Synapsin I in rat PC12 cells differentiated with NGF. The cells were labeled with mouse monoclonal Synapsin I (C-terminal region) antibody, then detected using appropriate secondary antibody conjugated to Cy3.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.