

MOUSE ANTI-SYNAPSIN 1 MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB10137 **QUANTITY:** 100 µg

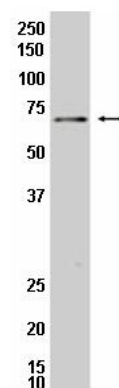
LOT NUMBER: **CONCENTRATION:**

CLONE NAME: 3C5 **HOST/ISOTYPE:** IgG2a

BACKGROUND: 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. Synapsin 1 plays a role in regulation of axonogenesis and synaptogenesis, and serves as a substrate for several different protein kinases. Mutations in this gene may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified.

IMMUNOGEN: Recombinant human Synapsin 1

APPLICATIONS: Western Blot Analysis: A 1 µg/mL dilution of the lot detected Synapsin 1 in nuclear extract from MCF-7 cells. Arrow indicates the expected band at approximately 74 kDa.



Optimal working dilutions must be determined by end user.

SPECIES REACTIVITY: Human

FORMAT: Supernatant

PRESENTATION: Liquid containing 0.1% sodium azide.

STORAGE/HANDLING: Maintain at 2-8°C for up to 12 months from date of receipt.

REFERENCES: Muretta, Joseph M, *et al* (2007). Expression of a synapsin IIb site 1 phosphorylation mutant in 3T3-L1 adipocytes inhibits basal intracellular retention of Glut4. *J Cell Sci* **120**: 1168-1677.

Lonart, Gyorgy and Simsek-Duran, Fatma (2006). Deletion of synapsins I and II genes alters the size of vesicular pools and rabphilin phosphorylation. *Brain Res* **1107**: 42-51.

Important Note: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

For research use only; not for use as a diagnostic.

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