

Spinophilin

Cat.No. 399-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 290 to 302 from rat Spinophilin (UniProt Id: O35274)
matching antibodies	399 003

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Spinophilin, also known as **Neurabin II**, is a scaffolding protein enriched in neuronal dendritic spines. It is involved in the targeted localization of protein phosphatase-1 (PP1), critical for dopaminergic modulation of glutamate neurotransmission.
More recently it has also been identified as a tumor suppressor. Loss of its function induces a proliferative response by increasing retinoblastoma protein (pRb) phosphorylation.

Selected General References

Characterisation of spinophilin immunoreactivity in postmortem human brain homogenates.
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The identification of a second actin-binding region in spinophilin/neurabin II.

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Brain research. Molecular brain research (2004) 124(2): 105-13.

Phosphorylation of spinophilin modulates its interaction with actin filaments.

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Characterization of the neuronal targeting protein spinophilin and its interactions with protein phosphatase-1.

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