

## Product datasheet for **AP20761PU-N**

### Synapsin I (SYN1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Synapsin I protein. (region surrounding Tyr3)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 80 kDa
Gene Name:	synapsin I
Database Link:	<a href="#">Entrez Gene 20964 Mouse</a> <a href="#">Entrez Gene 24949 Rat</a> <a href="#">Entrez Gene 6853 Human P17600</a>



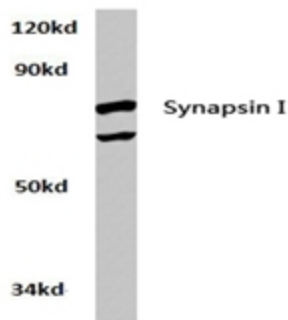
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**Background:**

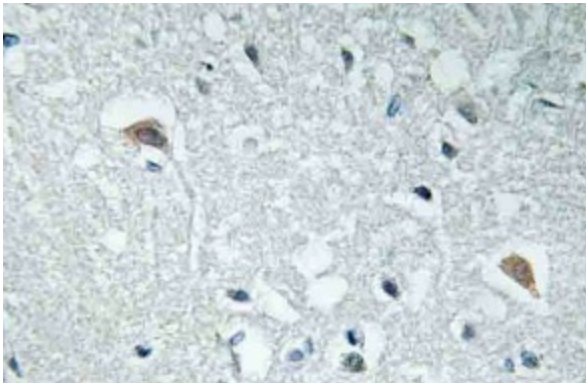
Synapsin I is a member of the synapsin family. Synapsins are neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a role in regulation of axonogenesis and synaptogenesis. The protein serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. Mutations of the Synapsin I gene may be associated with X linked disorders with primary neuronal degeneration such as Rett syndrome.

**Synonyms:**

Synapsin I, Brain protein 4.1, SYN1

**Product images:**

Western blot analysis of Synapsin-1 Antibody (Cat.-No AP20761PU-N) in extracts from HeLa cells at 1/500 dilution.



Immunohistochemistry analysis of Synapsin-1 Antibody (Cat.-No AP20761PU-N) in paraffin-embedded human brain tissue.