

## Product datasheet for **AP26436PU-N**

### **SYN1 Rabbit Polyclonal Antibody**

#### **Product data:**

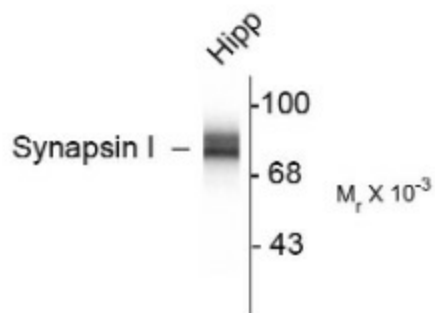
Product Type:	Primary Antibodies
Applications:	IF, IP, WB
Recommended Dilution:	<b>Western blot:</b> 1/1000. <b>Immunohistochemistry / immunofluorescence:</b> 1:1000. <b>Immunoprecipitation:</b> 2 µl per 200 µg lysate.
Reactivity:	Bovine, Human, Mouse, Rat
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	Native protein purified from bovine brain
Specificity:	Specific for the ~78k synapsin I doublet in Western blots of rat brain extracts. Immunolabeling blocked by preadsorption of antibody with the protein used to generate the antibody.
Formulation:	100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Purification:	Affinity purification using a column to which the native protein was coupled
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.
Database Link:	<a href="#">Entrez Gene 281510 Bovine P17599</a>
Background:	Synapsin I plays a key role in synaptic plasticity in brain (Feng et al., 2002; Nayak et al., 1996). This effect is due in large part to the ability of the synapsins to regulate the availability of synaptic vesicles for release. In addition to its role in plasticity, the expression of synapsin I is a precise indicator of synapse formation (Moore and Bernstein, 1989; Stone et al., 1994). Thus, synapsin I immunocytochemistry provides a valuable tool for the study of synaptogenesis. The role of synapsin in synaptic plasticity and in synaptogenesis is regulated by phosphorylation (Jovanovic et al., 2001; Kao et al., 2002).



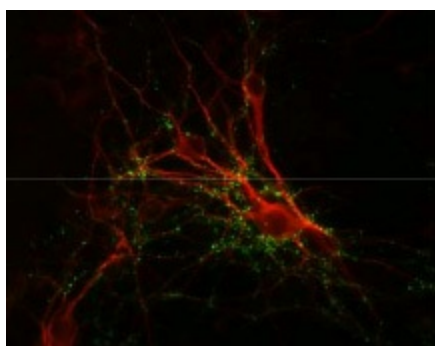
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Synonyms: Synapsin I, Brain protein 4.1, SYN1

### Product images:



Western blot of 10 ug of rat hippocampal (Hipp) lysate showing specific immunolabeling of the ~78k synapsin I doublet protein.



Immunostaining of cultured rat caudate neurons showing punctate distribution of synapsin in green and MAP in red.