

Product datasheet

Recombinant Human Synapsin I protein ab152720

[1 Image](#)

Description

Product name	Recombinant Human Synapsin I protein
Expression system	Wheat germ
Accession	<u>P17600</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	EIFGGLDICAVEALHGKDGRDHIIIEVVGSSMPLIGDHQDED KQLVELVV NKMAQALPRQRQRDASPGRGSHGQTPSPGALPLGRQTS Q
Predicted molecular weight	36 kDa including tags
Amino acids	362 to 450

Specifications

Our **Abpromise guarantee** covers the use of **ab152720** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot ELISA
Form	Liquid

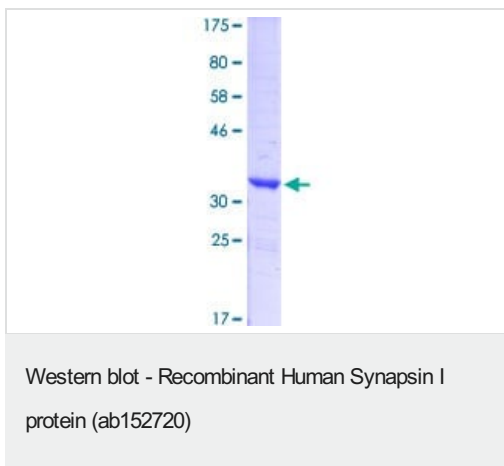
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

Function	Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level.
Involvement in disease	Defects in SYN1 are a cause of epilepsy X-linked with variable learning disabilities and behavior disorders [MIM:300491]. XELBD is characterized by variable combinations of epilepsy, learning difficulties, macrocephaly, and aggressive behavior.
Sequence similarities	Belongs to the synapsin family.
Post-translational modifications	Substrate of at least four different protein kinases. It is probable that phosphorylation plays a role in the regulation of synapsin-1 in the nerve terminal. Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cell junction > synapse. Golgi apparatus.

Images



12.5% SDS-PAGE stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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