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Datasheet for ABIN5542390

## anti-SYN1 antibody (AA 362-511)

1 Validation

10 Images

### Overview

Quantity:	0.1 mg
Target:	SYN1
Binding Specificity:	AA 362-511
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SYN1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FACS), Multiplex Immunohistochemistry (mIHC)

### Product Details

Immunogen:	Purified recombinant fragment of human SYN1 (AA: 362-511) expressed in E. coli.
Clone:	7H10G6
Isotype:	IgG1
Purification:	purified

### Target Details

Target:	SYN1
Alternative Name:	SYN1 ( <a href="#">SYN1 Products</a> )
Background:	Description: This gene is a member of the synapsin gene family. Synapsins encode neuronal

## Target Details

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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 encoded serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. 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.,

Aliases: SYNI, SYN1a, SYN1b

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Molecular Weight: 74.1 kDa

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Gene ID: 6853

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HGNC: 6853

## Application Details

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Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Purified antibody in PBS with 0.05 % sodium azide

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Preservative: Sodium azide

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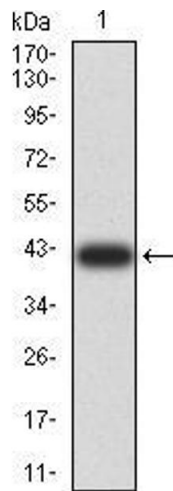
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: 4 °C/-20 °C

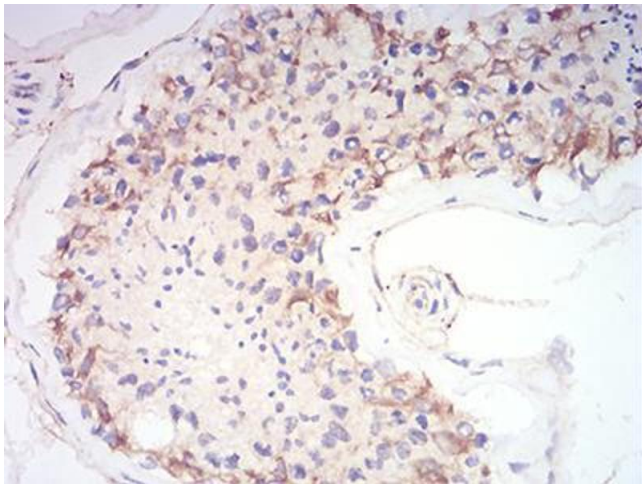
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Storage Comment: 4°C, -20°C for long term storage



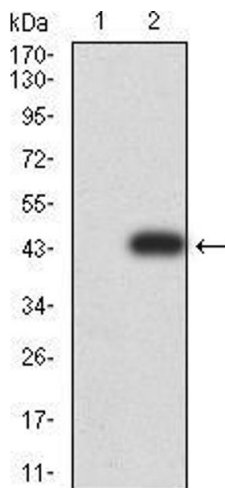
### Western Blotting

**Image 1.** Western blot analysis using SYN1 mAb against human SYN1 (AA: 362-511) recombinant protein. (Expected MW is 41.7 kDa)



### Immunohistochemistry

**Image 2.** Immunohistochemical analysis of paraffin-embedded testis tissues using SYN1 mouse mAb with DAB staining.



### Western Blotting

**Image 3.** Western blot analysis using SYN1 mAb against HEK293 (1) and SYN1 (AA: 362-511)-hlgGfc transfected HEK293 (2) cell lysate.

Please check the [product details page](#) for more images. Overall 10 images are available for ABIN5542390.



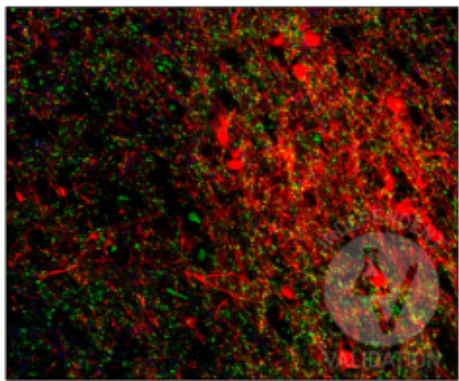
**Successfully validated (Multiplex Immunohistochemistry (mIHC))**

by [Akoya Biosciences](#)

Report Number: 104335

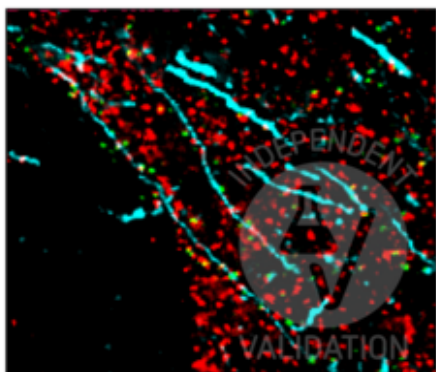
Date: Apr 20 2021

Target:	SYN1
Lot Number:	151229
Method validated:	Multiplex Immunohistochemistry (mIHC)
Positive Control:	FFPE normal human cortex
Negative Control:	Unlabeled control (FFPE normal human cortex)
Notes:	Passed. The anti-SYN1 antibody ABIN5542390 produces punctate labeling in synapse-rich regions of the human cortex. This pattern is consistent with expected SYN1 localization in synaptic contacts.
Primary Antibody:	ABIN5542390
Protocol:	<ul style="list-style-type: none"><li>• Protocol details are described in the Akoya Biosciences CODEX® User Manual (see <a href="https://www.akoyabio.com/wp-content/uploads/2021/01/CODEX-User-Manual.pdf">https://www.akoyabio.com/wp-content/uploads/2021/01/CODEX-User-Manual.pdf</a>).</li><li>• Tissue preparation as outlined in the Akoya Biosciences CODEX® User Manual fresh-frozen tissue protocol.</li><li>• Conjugation of the anti-SYN1 antibody ABIN5542390 to an oligo barcode used to bind oligo-conjugated fluorophore AF488.</li></ul>
Experimental Notes:	<ul style="list-style-type: none"><li>• No signal was detected in unlabeled specimens.</li><li>• Specific staining of Cortactin was also observed with human FFPE cortical tissue sections with both citrate antigen retrieval and EDTA antigen retrieval.</li><li>• Optimal staining and signal to noise ratios were obtained if tissue was pre-treated for autofluorescence removal (see <a href="https://www.akoyabio.com/wp-content/uploads/2020/07/Custom-Demonstrated-Protocol-Autofluorescence-Quenching-Mar2020.pdf">https://www.akoyabio.com/wp-content/uploads/2020/07/Custom-Demonstrated-Protocol-Autofluorescence-Quenching-Mar2020.pdf</a>).</li><li>•</li></ul>



**Validation image no. 1 for anti-Synapsin I (SYN1) (AA 362-511) antibody (ABIN5542390)**

FFPE normal human cortex tissue section labeled with anti-SYN1 antibody ABIN5542390 (blue; bound to fluorophore AF488) after EDTA antigen retrieval. MAP2 and SLC32A1 were labeled with anti-MAP2 antibody ABIN125739 (red; bound to fluorophore ATTO 500) and anti-SLC32A1 antibody ABIN2855225 (green; bound to fluorophore AF488).



**Validation image no. 2 for anti-Synapsin I (SYN1) (AA 362-511) antibody (ABIN5542390)**

FFPE normal human cortex tissue section labeled with anti-SYN1 antibody ABIN5542390 (red; bound to fluorophore AF488) after EDTA antigen retrieval. MAP2 and DLG4 were labeled with anti-MAP2 antibody ABIN125739 (cyan; bound to fluorophore ATTO 550) and anti-DLG4 antibody ABIN361694 (green; bound to fluorophore ATTO 550).