

## Basic Information

<b>Product Name</b>	Anti-Synaptophysin/SYP Antibody (Clone#BIE-19)	
<b>Gene Name</b>	SYP	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, ICC/IF, IP, FCM	
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthesized peptide derived from human Synaptophysin	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Affinity-chromatography	
<b>Observed MW</b>	38 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:20
	Flow Cytometry (FCM):	1:20

## Storage

12 months from date of receipt, -20°C as supplied.

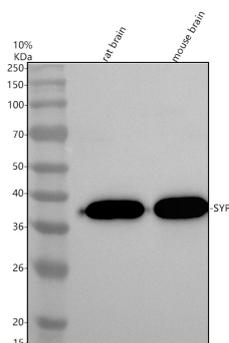
## Background Information

SYP(Synaptophysin) is located on the short arm of X chromosome (Xp11.23-p11.22). The protein is a synaptic vesicle glycoprotein with four transmembrane domains weighing 38kDa. It is present in neuroendocrine cells and in virtually all neurons in the brain and spinal cord that participate in synaptic transmission. It acts as a marker for neuroendocrine tumors, and its ubiquity at the synapse has led to the use of synaptophysin immunostaining for quantification of synapses. Also, the protein binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with X-linked mental retardation (XLMR).

## Reference

Anti-Synaptophysin/SYP Antibody (Clone#BIE-19)被引用在2文献中。

## Selected Validation Data



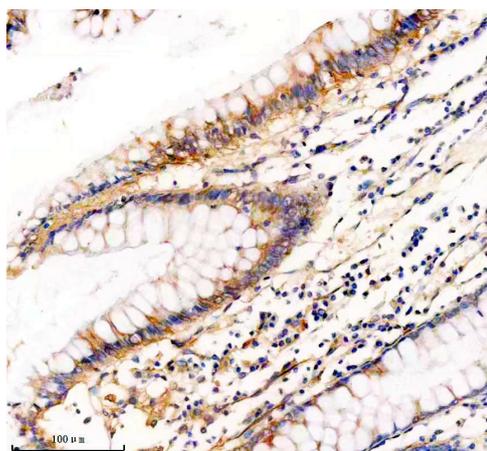
Western blot analysis of anti-Synaptophysin/SYP antibody (BM4152). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-Synaptophysin/SYP antigen affinity purified monoclonal antibody (BM4152) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Synaptophysin/SYP at approximately 38 kDa. The expected band size for Synaptophysin/SYP is at 34 kDa.



IHC analysis of Synaptophysin/SYP using anti-Synaptophysin/SYP antibody (BM4152).

Synaptophysin/SYP was detected in a paraffin-embedded section of human colon tissue. The tissue section was incubated with rabbit anti-Synaptophysin/SYP Antibody (BM4152) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet

## Anti-Synaptophysin/SYP Antibody (Clone#BIE-19)

**Catalog Number: BM4152**

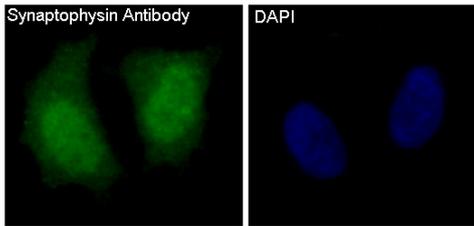
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Immunofluorescent analysis of PC-12 cells, using Synaptophysin Antibody .