

Rabbit Synaptotagmin 1 Polyclonal Antibody | anti-SYT1 antibody

Anti-Synaptotagmin 1 Picoband antibody

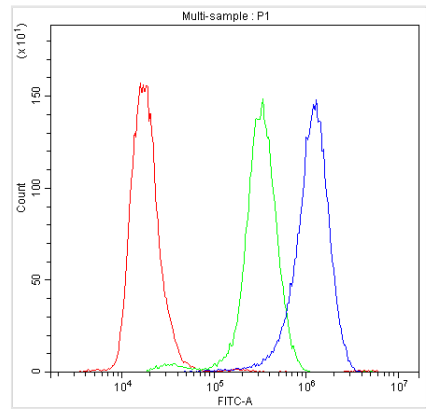
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19158	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Synaptotagmin 1; Polyclonal Antibody; Anti-Synaptotagmin 1 Picoband antibody; Synaptotagmin-1; Synaptotagmin I; Sytl; p65; SYT1; SVP65; SYT; anti-SYT1 antibody

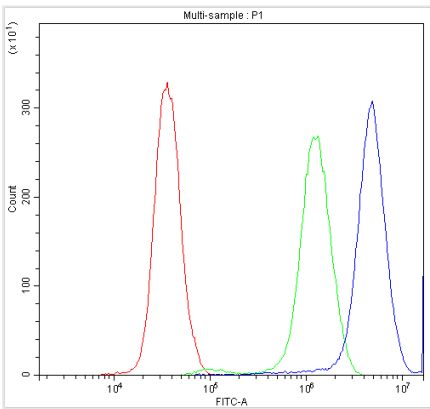
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	422
Applicable Applications for anti-SYT1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.5µg/ml Immunohistochemistry (Paraffin-embedded Section): 0.5-1µg/ml
Immunogen	A synthetic peptide corresponding to a sequence of human Synaptotagmin 1 (RRPIAQWHTLQVEEEVDAMLAVKK).
Subcellular Localization	Cytoplasmic vesicle, secretory vesicle membrane.
Tissue Specificity	Expressed in melanocytes (PubMed: 23999003).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500µg/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



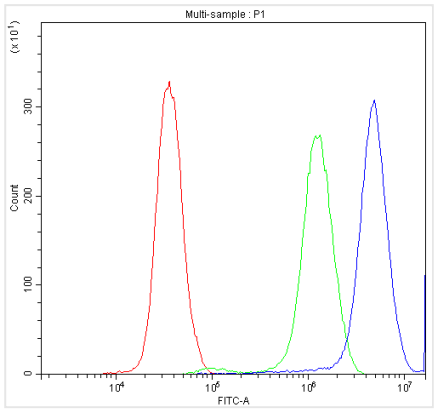
FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of LLC cells using anti-Synaptotagmin 1 antibody (AAA19158).Overlay histogram showing LLC cells stained with AAA19158 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Synaptotagmin 1 Antibody (AAA19158,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



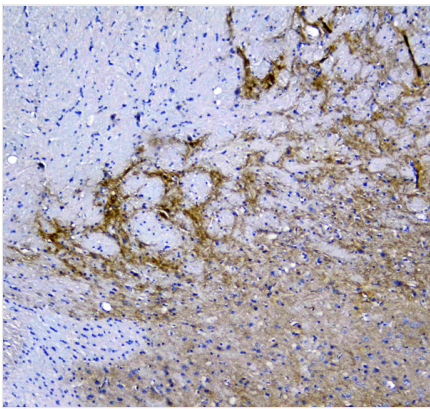
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of PC-3 cells using anti-Synaptotagmin 1 antibody (AAA19158).Overlay histogram showing PC-3 cells stained with AAA19158 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Synaptotagmin 1 Antibody (AAA19158,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



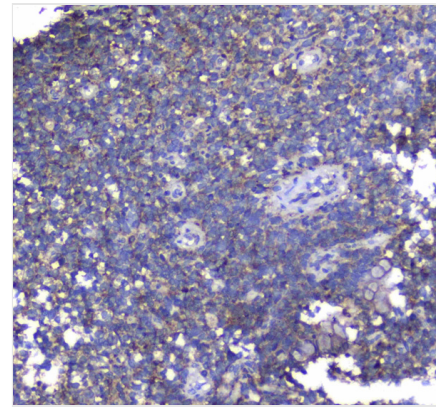
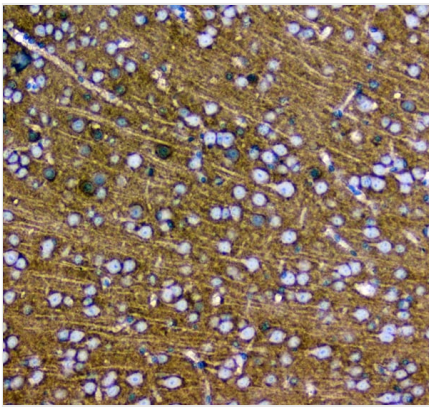
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of A549 cells using anti-Synaptotagmin 1 antibody (AAA19158).Overlay histogram showing A549 cells stained with AAA19158 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Synaptotagmin 1 Antibody (AAA19158,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of Synaptotagmin 1 using anti-Synaptotagmin 1 antibody (AAA19158).Synaptotagmin 1 was detected in paraffin-embedded section of human melanoma tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Synaptotagmin 1 Antibody (AAA19158) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of Synaptotagmin 1 using anti-Synaptotagmin 1 antibody (AAA19158). Synaptotagmin 1 was detected in paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Synaptotagmin 1 Antibody (AAA19158) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)

Figure 3. IHC analysis of Synaptotagmin 1 using anti-Synaptotagmin 1 antibody (AAA19158). Synaptotagmin 1 was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Synaptotagmin 1 Antibody (AAA19158) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-SYT1 antibody

Description: Synaptotagmin-1 is a protein that in humans is encoded by the SYT1 gene. The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin-1 participates in triggering neurotransmitter release at the synapse.

Protein Function: May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neuroligins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (PubMed: 23999003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	209447070
NCBI GeneID	6857
NCBI Accession #	NP_001129277.1
NCBI GenBank Nucleotide #	NM_001135805.1
UniProt Accession #	P21579; Q6AI31
Molecular Weight	47,573 Da
NCBI Official Full Name	synaptotagmin-1 isoform 1
NCBI Official Synonym Full Names	synaptotagmin 1
NCBI Official Symbol	SYT1
NCBI Official Synonym Symbols	P65; SYT; SVP65
NCBI Protein Information	synaptotagmin-1
UniProt Protein Name	Synaptotagmin-1
UniProt Gene Name	SYT1
UniProt Synonym Gene Names	SVP65; SYT; Sytl

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/synaptotagmin-1-antibody-immunohistochemistry-western-blot-elisa/19158>