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**Anti-Human Syntaxin
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL2706AP	Purified	200 µg	1.0 mg/ml	CLCMG100
CL2706B	Biotin	100 µg	0.1 mg/ml	CLCMG115
CL2706F	FITC	100 µg	0.1 mg/ml	CLCMG101
CL2706AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Mouse IgG1

DESCRIPTION:

Syntaxin 1 is a 35 KDa integral membrane protein that possesses a single C-terminal transmembrane domain, a SNARE domain (H3) and an N-terminal regulatory domain (Habc). Two isoforms of Syntaxin 1 have been identified, Syntaxin 1A and Syntaxin1B. Syntaxin 1A localizes to nerve terminals of sensory neurons and nerve fibres reaching small blood vessels. Whereas Syntaxin 1B is localized to motor end plates and muscle spindles.

Syntaxin 1A resides at the pre-synaptic membrane and is a key component of the SNARE core complex that also includes Synaptobrevin-2 and SNAP25. Several other proteins including synaptotagmin-1, Munc18-1 and complexin also bind this complex to form the functional SNARE complex. SNARE is responsible for driving secretory vesicle docking, fusion and ultimately exocytosis.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximal recovery of contents, please quick-spin vial before opening.

Biotin, FITC and AF488: Biotin/FITC/AF488 conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/mL.

STORAGE/STABILITY:

Store at +4°C. DO NOT FREEZE **AF488** conjugates. For long term storage (**Purified, Biotin and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single use. Avoid freeze thaw cycles.

APPLICATIONS:

This antibody is suitable for use in Western Blot, ELISA, Flow Cytometry and Immunofluorescence (1:500 dilution).

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SPECIFICATIONS:

Clone: SP6

Hybridoma Production:

Immunization: Mouse monoclonal antibodies raised against synaptic vesicle-containing fractions immunoprecipitated from human brain homogenates using anti-human synaptophysin monoclonal Abs.

Specificity: This antibody is specific for human Syntaxin. [also reacts with mouse and rat].

Appropriate control samples should always be included in any labeling studies.

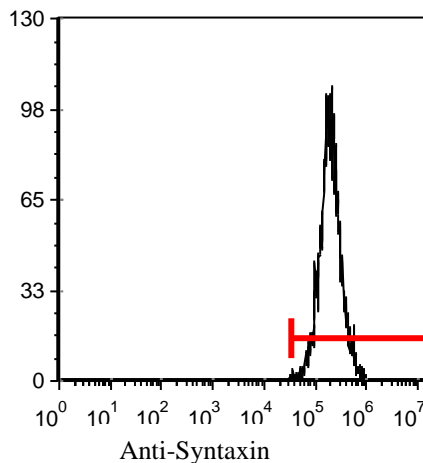
*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1×10^6 cells per tests

Antibody Concentration Used: $0.5 \mu\text{g}/10^6$ cells



Cell Source: **SHP-77 Cell Line** (fixed and permeabilized)
Percentage of cells stained above control: **99.7%**

REFERENCES:

1. De Wit, H et al. **Synaptotagmin-1 docks secretory vesicles to Syntaxin-1/SNAP-25 receptor complexes.** Cell. 138, 935-946, 2009.
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5. Lang, T. and Jahn R. **Core proteins of the secretory machinery.** Handb. Exp. Pharmacol. (184): 107-27, 2008.
6. Ungermann, C. and Langosch, D. **Functions of SNAREs in intracellular membrane fusion and lipid bilayer mixing.** J. Cell Science. 118, 3819-3828, 2005.

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