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**Anti-Human Syntaxin  
Monoclonal Antibody**

| Catalogue# | Format   | Size   | Concentration | Isotype Control |
|------------|----------|--------|---------------|-----------------|
| CL2707AP   | Purified | 200 µg | 1.0 mg/ml     | CLCMG100        |
| CL2707B    | Biotin   | 100 µg | 0.1 mg/ml     | CLCMG115        |
| CL2707F    | FITC     | 100 µg | 0.1 mg/ml     | CLCMG101        |

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 Syntaxin 1B. 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% NaN<sub>3</sub>. (Purified from ascitic fluid via Protein G Chromatography). For maximal recovery of contents, please quick-spin vial before opening.

**Biotin and FITC:** Biotin/FITC conjugated IgG buffered in PBS, 0.02% NaN<sub>3</sub> and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/mL.

**STORAGE/STABILITY:**

Store at +4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single use. Avoid freeze thaw cycles.

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### **APPLICATIONS:**

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

### **SPECIFICATIONS:**

Clone: SP8

#### Hybridoma Production:

Immunization: Mouse monoclonal antibodies raised against Crude synaptic preparation from post mortem human brain.

Specificity: This antibody is specific for the human pre-synaptic membrane protein syntaxin (isoform 1A, amino acids 4-190). [also reacts with mouse, rat and pig].

**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.**

### **REFERENCES:**

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2. Honer, WG et al. **Cingulate cortex synaptic terminal proteins and neural cell adhesion molecule in schizophrenia.** Neuroscience. 78(1), 99-110, 1997.
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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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