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for the Science of Tomorrow™

**Anti-Human SNAP-25
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL2705AP	Purified	200 µg	1.0 mg/ml	CLCMG100
CL2705B	Biotin	100 µg	0.1 mg/ml	CLCMG115
CL2705F	FITC	100 µg	0.1 mg/ml	CLCMG101
CL2705AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A
CL2705AF6	Alexa Fluor [®] 647	100 µg	0.1 mg/ml	N/A

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

Isotype: Mouse IgG1

DESCRIPTION:

Synaptosomal-associated protein 25 (SNAP25) is a membrane bound protein localized to the cytosolic face of the pre-synaptic membrane. SNAP25 is one component of the SNARE core complex which also includes Syntaxin-1 and Synaptobrevin 2. Through interactions with these proteins and Synaptotagmin, SNAP25 regulates vesicle docking and fusion and subsequently neurotransmitter release. SNAP25 exists as two alternatively spliced isoforms, SNAP25A and SNAP25B, that are differentially expressed in neurons and neuroendocrine cells.

Recent studies have shown that some mutations in SNAP25 may predispose humans to attention deficit hyperactivity disorder (ADHD). These findings are consistent with the fact that SNAP25 reduces Ca²⁺ responsiveness at glutamatergic synapses.

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, AF488 and AF647: Biotin/FITC/AF488/AF647 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:

For all formats, store at 4°C. DO NOT FREEZE AF488 and AF647 conjugates. For long term storage (**Purified, Biotin and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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APPLICATIONS:

This antibody is suitable for use in Western Blot, ELISA, ICC/IF and Flow Cytometry.

SPECIFICATIONS:

Clone: SP12

Hybridoma Production:

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

Specificity: This antibody is specific for human SNAP25 (A and B isoforms). It is not effective against protein raised in bacterial expression systems [also reacts with Mouse, Rat, Cat, 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.
3. Honer, WG et al. **Human synaptic proteins with a heterogeneous distribution in cerebellum and visual cortex.** Brain Res. 609(1-2), 9-20, 1993.
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5. Mill, J et al. **Association study of a SNAP-25 microsatellite and attention deficit hyperactivity disorder.** Am. J. Med. Genet. 114(3): 269–71, 2002.
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7. Young, CE et al. **SNAP-25 Deficit and Hippocampal Connectivity in Schizophrenia.** Cereb Cortex. 8(3), 261-8, 1998.

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