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### SZABO-SCANDIC HandelsgmbH

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**Anti-Human CDCrel-1/Sept5  
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL2708AP	Purified	200 µg	1.0 mg/ml	CLCMG100
CL2708B	Biotin	100 µg	0.1 mg/ml	CLCMG115
CL2708F	FITC	100 µg	0.1 mg/ml	CLCMG101

Isotype: Mouse IgG1

**DESCRIPTION:**

CDCrel-1/Septin 5 (Sept5) belongs to the Septin family of nucleotide binding GTPases. Septins were originally described in yeast as cell division cycle regulatory proteins involved in cytokinesis and the regulation of cytoskeletal organization. Sept5 is expressed in cells of the nervous system and is seen to associate primarily with vesicles and membranes through its interaction with the SNARE domain of syntaxin 1A. Through its interaction with syntaxin 1A Sept5 acts to inhibit exocytosis, possibly by regulating vesicle targeting and/or fusion. Recently it was shown that Sept5 is phosphorylated by cyclin-dependent kinase 5 (Cdk5) – p35 decreasing it's binding to syntaxin 1A. This suggests that Cdk5 can modulate synaptic vesicle release by regulating the interactions between Sept5 and syntaxin 1A.

**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.

**APPLICATIONS:**

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

*Continued Overleaf...*

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## **SPECIFICATIONS:**

Clone: SP18

### Hybridoma Production:

Immunization: Mouse monoclonal antibodies raised against Immunoprecipitate of human brain.

Specificity: This antibody is specific for human CDCrel-1/SEPT5. [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.**

## **REFERENCES:**

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5. Lang, T. and Jahn R. **Core proteins of the secretory machinery.** Handb. Exp. Pharmacol. (184): 107-27, 2008.
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7. 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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