

Code No. 18991

**Anti-Human  
Septin 7 (C) Rabbit IgG Affinity Purify**Volume : 100 µg

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**Introduction** : A cytoskeletal or scaffold protein family named “septin” has been shown to be involved in diverse phenomena in the living body, including cell division. The term “septin” is derived from “septation,” which means division. The protein was discovered as a GTP-bound protein (a polymer) indispensable for the division of yeast cells. Several to dozens of septin subunits are linked together to form filaments tens of nanometers in length. Multiple such filaments combine to form structures assuming the shapes of ribbons, rings or spirals, measuring on the order of submicrons in size. In multicellular organisms, septin is known to be involved in cell division as well as in diverse cell functions after differentiation, although the exact nature of its actions remain to be determined.

Septin 7 (hcdc 10), one of the most important subunits of the mammalian septin family, is known to be expressed in all cells. Abnormal levels or locations of septin expression have been reported in humans with cancer, degenerative neurological diseases (e.g., Alzheimer’s disease), male sterility, etc.

**Antigen** : Synthetic peptide of the C terminal part of Human Septin 7 (NSSRTLEKNKKKGKIF)

**Purification** : Purified with antigen peptide

**Form** : Lyophilized product from 1 % BSA in PBS containing 0.05% NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

**Stability** : Lyophilized product, 5 years at 2 – 8 °C  
: Solution, 2 years at –20 °C

**Application** : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues by several techniques such as Avidin Biotin Complex (ABC) Method. The optimal concentration is about 1-5 µg/mL, however, the concentration should be optimized by each laboratory.

: This antibody can be used for western blotting in concentration of 0.1-1 µg /mL.

: This antibody can be used for immuno-precipitation in concentration of about 1-5 µg /test.

**Specificity** : Cross reacts with mouse and rat.

- Reference** : 1. Kinoshita, M. (2006). Diversity of septin scaffolds. *Curr Opin Cell Biol.* 18 (1), 54-60.  
2. Ihara, M., Kinoshita, A., Yamada, S., Tanaka, H., Tanigaki, A., Kitano, A., Goto, M., Okubo, K., Nishiyama, H., Ogawa, O., Takahashi, C., Itohara, S., Nishimune, Y., Noda, M., Kinoshita, M. (2005). Cortical organization by the septin cytoskeleton is essential for structural and mechanical integrity of mammalian spermatozoa. *Dev Cell.* 8 (3), 343-52.  
3. Kinoshita A, Kinoshita M, Akiyama H, Tomimoto H, Akiguchi I, Kumar S, Noda M, Kimura J. (1998). Identification of septins in neurofibrillary tangles in Alzheimer’s disease. *Am J Pathol.* 153 (5), 1551-60.
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