

FUJIFILM**Wako**Code No. 015-25191 (50 μ L)**Anti Phosphorylated α -Synuclein,
Monoclonal Antibody (pSyn#64)**抗リン酸化 α -シヌクレイン, モノクローナル抗体
(pSyn#64)**Background**

α -Synuclein in Lewy bodies (LBs), which are pathognomonic for Parkinson's Disease (PD) and Dementia with Lewy bodies (DLB), is phosphorylated at Ser 129¹⁾²⁾. Anti Phosphorylated α -Synuclein, Monoclonal Antibody (pSyn#64) specifically reacts with α -synuclein phosphorylated at Ser 129 and does not react with non-phosphorylated α -synuclein. The antibody is applicable to immunohistochemical and biological studies related to Parkinson's Disease and LB pathology.

Description

[Preparation]	The antibody is produced by hybridoma Clone pSyn#64, established by mouse myeloma cell PAI and spleen cells of BALB/c mice, immunized with the antigen.
[Formulation]	Filtrated serum-free medium containing 0.05% sodium azide.
[Antigen]	Peptide (residues 124-134) including phosphorylated Ser129 of human α -Synuclein.
[Host]	Mouse
[Reactivity]	Reacts with human and rodent α -Synuclein including phosphorylated Ser129. Not reaction to wild-type mice, rats or healthy person. We are no able to guarantee that this item is applicable to any patients or model animals.
[Clone No.]	pSyn#64
[Isotype]	IgG

Applications

Western blot	1 : 1,000-1 : 10,000
Immunohistochemistry	1 : 1,000-1 : 10,000

Storage

Store at -20°C .
Avoid repeated freeze and thaw.

Package50 μ L**Example of protocol (immunohistochemistry, paraffin section)**

1. Deparaffinize the section.
2. Antigen retrieval* : boiled in 0.01M citrate buffer (pH 6.0), 10 min
3. Cool down to about 30°C with a fan.
4. Wash : TBS (50 mM Tris-HCl (pH 7.6), 150 mM NaCl)
5. Blocking : 10 % calf serum, 0.1 % NaN_3^{**} in PBS, 30 min
6. Primary antibody : anti phospho α -synuclein antibody (pSyn #64) (Wako Catalog No. 015-25191) 1 : 1,000, 10 % calf serum, 0.1 % NaN_3^{**} in PBS, overnight, at room temperature
7. Wash : TBS, 5 min, 3 times
8. Secondary antibody : biotinylated anti-mouse IgG (H+L) 1 : 500, 10 % calf serum, 0.1 % NaN_3^{**} in PBS, 2 hours, at room temperature
9. Wash : TBS, 5 min, 3 times
10. ABC solution, 1 hour, at room temperature
11. Wash : TBS, 5 min, 3 times
12. 0.02 % DAB, 0.05 % H_2O_2 in TBS, 5 min, at room temperature
13. Wash : distilled water, 10 min
14. Nuclear staining : hematoxylin solution, 1 min
15. Wash : distilled water, 10 min
16. Mount

* Alternative method : 99% formic acid, 5 min, at room temperature.
** Sodium azide : a preservative.

References

- 1) Fujiwara, H., Hasegawa, M., Dohmae, N., Kawashima, A., Masliah, E., Goldberg, S. M., Shen, J., Takio, K. and Iwatsubo, T. : *Nature Cell Biology*, **4**, 160, (2002)
- 2) Saito, Y., Kawashima, A., Ruberu, N. N., Fujiwara, H., Koyama, S., Sawabe, M., Arai, T., Nagura, H., Yamanouchi, H., Hasegawa, M., Iwatsubo, T. and Murayama, S. : *Journal of Neuropathology and Experimental Neurology*, **62**, 644 (2003)

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