IBL Data Sheet

Code No. 18921

Anti-Human
CDCrel-1 (C354) Rabbit IgG Affinity Purify

Volume : 100 µg

Introduction : Parkinson's Disease (PD) is a relatively common neurodegenerative disorder, which is characterized by the loss of midbrain dopamine (DA) neurons and the presence of Lewy bodies, proteinaceous cytoplasmic inclusions that are abundantly enriched in ubiquitin. It is identified a number of potential substrates for parkin, which may be involved in the pathogenesis of PD. One of parkin's potential substrates is CDCrel-1. Mutations in parkin impair its ability to regulate the turnover of CDCrel-1. CDCrel-1 belongs to a family of septin GTPases and may regulate synaptic vesicle release in the nervous system.

Antigen : Synthetic peptide of part of C terminal of human CDCrel-1 (RMQEMLQRMKQQMQDQ)

Purification : Purified with antigen peptide

Form : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN_3

How to use : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 µg/mL

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

Application : This antibody can be stained in formalin fixed paraffin embedded tissues after microwave pretreatment (10 min, 10mM Citrate Buffer, pH 6.0) by several Immunohistochemical techniques such as Avidin Biotin Complex (ABC) method. The optimal dilution is about 2 µg/mL, however, the dilution rate should be optimized by each laboratories.
: This antibody can be used for western blotting in concentration of about 1 µg/mL.
: This antibody can be used for immunoprecipitation in concentration of about 3 µg/mL.

Specificity : Cross-reacts with Mouse and Rat

Reference :

1. Kinoshita A, Noda M, Kinoshita M. Differential localization of septins in the mouse brain. J. Comp. Neurol. 428 (2): 223-239, 2000
2. Toda S, Kajii Y, Sato M, and Nishikawa T. Reciprocal expression of infant- and adult-preferring transcripts of CDCrel-1 septin gene in the rat neocortex. Biochem. Biophys. Res. Commun. 273 (2): 723-8, 2000
3. Beites C. L., Xie H., Bowser R., and Trimble W. S. The septin CDCrel-1 binds syntaxin and inhibits exocytosis. Nat. Neurosci. 2 (5): 434-439,1999

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