

Datasheet for ABIN7043801

anti-beta Synuclein antibody (Intracellular)



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1 Image

Overview

Quantity:	50 µL
Target:	beta Synuclein (SNCB)
Binding Specificity:	AA 86-99, Intracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This beta Synuclein antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to β -Synuclein
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KEEFPTDLKPEEVA, corresponding to amino acid residues 86-99 of rat beta-synuclein
Isotype:	IgG
Specificity:	Intracellular, C-terminus
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	Specific for β -synuclein. No cross-reactivity with α -synuclein.
Predicted Reactivity:	Mouse,human - identical
Characteristics:	Anti-Beta-Synuclein Antibody (ABIN7043801, ABIN7045182 and ABIN7045183) is a highly

Product Details

specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot analysis. It has been designed to recognize β -synuclein from human, mouse, and rat samples. The antibody is specific for β -synuclein. It will not cross-react with α -synuclein.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: beta Synuclein (SNCB)

Alternative Name: SNCB ([SNCB Products](#))

Background: β -Synuclein, Synuclein beta, PNP 14, SNCB, β -Synuclein is a presynaptic protein that plays an important role in neuronal plasticity and synaptic vesicle regulation. The synuclein family includes three members: α , β and γ isoforms. The presynaptic proteins are detected in the neocortex, hippocampus, striatum, thalamus, and cerebellum regions^{1,2}. β -Synuclein has been shown to act as a negative regulator of α -synuclein aggregation both in vivo and in vitro^{1,2}. Structure wise, the protein contains a highly conserved N-terminal domain which includes a repetitive amino acid motif, and a more divergent and highly acidic stretch at the C-terminal domain^{2,3}. Studies have shown overexpressed mRNA levels of β -synuclein in Parkinson's disease suggesting that the protein has a valuable role in maintaining homeostasis in the disease pathology. In addition, studies have shown the action of β -synuclein as a neurodegeneration-inducing factor that can cause cell loss when expressed in rat brains^{1,2}. β -Synuclein is also implicated with dementia involving Lewy bodies. To date, two mutations in the protein, V70M and P123H, have been identified in the sporadic and familial disease³.

Alternative names: Beta-Synuclein, beta-Synuclein, Synuclein beta, PNP 14, SNCB

Gene ID: 113893

NCBI Accession: [NM_001001502](#)

UniProt: [Q63754](#)

Application Details

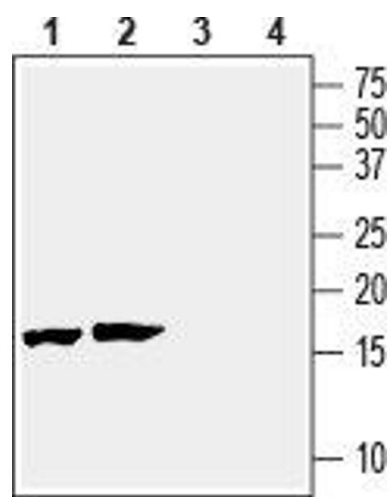
Application Notes: Antigen preadsorption control: 1 μ g peptide per 1 μ g antibody
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A
Application Dilutions Western blot wb: 1:200

Comment: Negative Control: (ABIN7237362)

Application Details

	Blocking Peptide: (ABIN7237362)
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of mouse (lanes 1 and 3) and rat (lanes 2 and 4) brain lysates: - 1,2. Anti-Beta-Synuclein Antibody (ABIN7043801, ABIN7045182 and ABIN7045183), (1:200).3,4. Anti-Beta-Synuclein Antibody, preincubated with Beta-Synuclein Blocking Peptide (#BLP-PZ036).