

Recombinant SNCA/alpha-Synuclein Monoclonal Antibody

catalog number: **AN300413P**

Note: Centrifuge before opening to ensure complete recovery of vial contents.

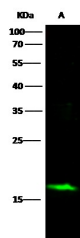
Description

Reactivity	Human
Immunogen	Recombinant Human SNCA/alpha-Synuclein protein
Host	Rabbit
Isotype	IgG
Clone	5D12
Purification	Protein A
Buffer	0.2 µm filtered solution in PBS

Applications Recommended Dilution

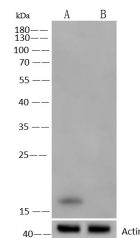
WB	1:500-1:2000
-----------	--------------

Data



Western Blot with SNCA Monoclonal Antibody at dilution of 1:500 dilution. Lane A: 293T Whole Cell Lysate, Lysates/proteins at 30 µg per lane.

Observed-MW:18 kDa
Calculated-MW:16 kDa



Western Blot with alpha-Synuclein Monoclonal Antibody at dilution of 1:500 dilution. Lane A: Hela Whole Cell Lysate, Lane B: alpha-Synuclein konckout Hela Whole Cell Lysate, Lysates/proteins at 30 µg per lane.

Observed-MW:18 kDa
Calculated-MW:16 kDa

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. Participates as a monomer in synaptic vesicle exocytosis by enhancing vesicle priming, fusion and dilation of exocytotic fusion pores. Mechanistically, acts by increasing local Ca²⁺ release from microdomains which is essential for the enhancement of ATP-induced exocytosis. Acts also as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5. This chaperone activity is important to sustain normal SNARE-complex assembly during aging. Also plays a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity.

For Research Use Only