

**Product Name: Phospho-alpha Synuclein (S129) (15T7)
Rabbit Monoclonal Antibody
Catalog #: AMRe05849**



Summary

Production Name	Phospho-alpha Synuclein (S129) (15T7) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	SNCA
Alternative Names	NACP; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; SYN; SYUA; alpha-synuclein; PARK1; PARK4; PD1; SNCA;
Gene ID	6622.0
SwissProt ID	P37840.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	14kDa

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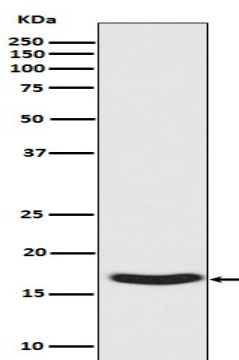


Background

Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. 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 (PubMed:[28288128](http://www.uniprot.org/citations/28288128)), PubMed:[30404828](http://www.uniprot.org/citations/30404828)). Mechanistically, acts by increasing local Ca²⁺ release from microdomains which is essential for the enhancement of ATP-induced exocytosis (PubMed:[30404828](http://www.uniprot.org/citations/30404828)). 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 (PubMed:[20798282](http://www.uniprot.org/citations/20798282)). This chaperone activity is important to sustain normal SNARE-complex assembly during aging (PubMed:[20798282](http://www.uniprot.org/citations/20798282)). Plays also a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity (PubMed:[26442590](http://www.uniprot.org/citations/26442590)).

Research Area

Image Data



Western blot analysis of Synuclein phosphorylation expression in Human fetal brain lysate.

Note

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