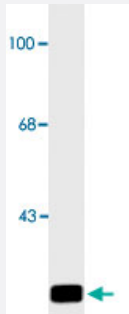


SNCA monoclonal antibody, clone 2A7

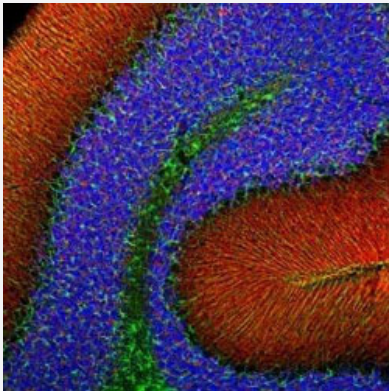
Catalog # MAB8432 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot of rat brain lysate showing specific immunolabeling ~ 15 kDa of SNCA protein. Using SNCA monoclonal antibody (Cat # MAB8432).



Immunofluorescence

Immunofluorescence of rat cerebellum showing specific alpha-synuclein staining in synaptic regions in red and GFAP in the cytoskeleton of glia and astrocytes in green. DNA is stained blue.

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant SNCA.
Immunogen	Recombinant protein corresponding to full length human SNCA.
Host	Mouse
Theoretical MW (kDa)	15
Reactivity	Human, Rat

Specificity	This antibody has been directly tested for reactivity in human and rodent. It is expected that it will work on other mammal tissues. specific to the ~15KDa alpha Synuclein protein.
Form	Liquid
Isotype	IgG1
Recommend Usage	Immunocytochemistry Immunohistochemistry (1:1000) Immunofluorescence (1:1000) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 5 mM sodium azide).
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot of rat brain lysate showing specific immunolabeling ~ 15 kDa of SNCA protein. Using SNCA monoclonal antibody (Cat # MAB8432).

- Immunohistochemistry

- Immunocytochemistry

- Immunofluorescence

Immunofluorescence of rat cerebellum showing specific alpha-synuclein staining in synaptic regions in red and GFAP in the cytoskeleton of glia and astrocytes in green. DNA is stained blue.

Gene Info — SNCA

Entrez GeneID	6622
Protein Accession#	P37840
Gene Name	SNCA
Gene Alias	MGC110988, NACP, PARK1, PARK4, PD1

Gene Description	synuclein, alpha (non A4 component of amyloid precursor)
Omim ID	127750 163890 168601 605543
Gene Ontology	Hyperlink
Gene Summary	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. SNCA may serve to integrate presynaptic signaling and membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease. Four alternatively spliced transcripts encoding two different isoforms have been identified for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000161559 OTTHUMP00000161561 alpha synuclein alpha-synuclein alpha-synuclein, isoform NACP140 non A-beta component of AD amyloid non A4 component of amyloid

Publication Reference

- [alpha-Synuclein locus triplication causes Parkinson's disease.](#)

Singleton AB, Farrer M, Johnson J, Singleton A, Hague S, Kachergus J, Hulihan M, Peuralinna T, Dutra A, Nussbaum R, Lincoln S, Crawley A, Hanson M, Maraganore D, Adler C, Cookson MR, Muentner M, Baptista M, Miller D, Blancato J, Hardy J, Gwinn-Hardy K.

Science 2003 Oct; 302(5646):841.

- [Constitutive phosphorylation of the Parkinson's disease associated alpha-synuclein.](#)

Okochi M, Walter J, Koyama A, Nakajo S, Baba M, Iwatsubo T, Meijer L, Kahle PJ, Haass C.

The Journal of Biological Chemistry 2000 Jan; 275(1):390.

Application: WB-Ti, WB-Tr, Human, Brain, K293, PC12 cells

Disease

- [Alcoholism](#)
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- [Amphetamine-Related Disorders](#)
- [Association Learning](#)
- [Attention](#)
- [Cardiovascular Diseases](#)

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