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SNCA Recombinant Monoclonal Antibody

Product Code	CSB-RA021912MA1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P37840
Immunogen	Recombinant Human SNCA protein
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF, FC; Recommended dilution: IHC:1:20-1:200, IF:1:20-1:200, FC:1:20-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
Isotype	Mouse IgG2a
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	SNCA
Clone No.	10E5

Image



IHC image of CSB-

RA021912MA1HU diluted at 1:100 and staining i n paraffin-

embedded human brain tissue performed on a L eica BondTM system. After dewaxing and hydrati on, antigen retrieval was mediated by high press ure in a citrate buffer (pH 6.0). Section was block ed with 10% normal goat serum 30min at RT. Th en primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-

Mouse IgG labeled by HRP and visualized using 0.05% DAB.



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IHC image of CSB-

RA021912MA1HU diluted at 1:100 and staining i n paraffin-

embedded human glioma cancer performed on a Leica BondTM system. After dewaxing and hydr ation, antigen retrieval was mediated by high pre ssure in a citrate buffer (pH 6.0). Section was blo cked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a G oat anti-

Mouse IgG labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of SH-SY5Y cell with CSB-RA021912MA1HU at 1:30, counterstained with DAPI. The cells were fixed in 4% for maldehyde and blocked in 10% normal Goat Ser um. The cells were then incubated with the antib ody overnight at 4C. The secondary antibody wa s FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Overlay Peak curve showing SH-SY5Y cells stained with CSB-

RA021912MA1HU (red line) at 1:100. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum was Incub ated to block non-specific proteinprotein interactions followed by the antibody (1µg /1*10⁶cells) for 45 min at 4°C. The secondary ant ibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4 °C. Isotype control antibody (green line) was mo use IgG1 (1µg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was pe rformed.

Description

The production of the recombinant monoclonal antibody specific to SNCA involves initially inserting SNCA antibody genes into plasmid vectors. These engineered plasmid vectors are subsequently introduced into appropriate host cells for expression. Afterward, the SNCA recombinant monoclonal antibody undergoes purification using affinity chromatography. It has undergone thorough validation for various applications, including ELISA, IHC, IF, and FC. This antibody exclusively recognizes the human SNCA protein.

SNCA is predominantly found in neurons, particularly in the presynaptic terminals, where it participates in several important processes, including regulation of synaptic vesicles, maintenance of synaptic integrity, neuronal plasticity, dopamine regulation, formation of Lewy Bodies, and cellular stress response.