

Product information

Monoclonal anti-human α -Synuclein (61-95 aa) antibody (5C2)

Mouse IgG₁, κ

Cat. No. IBANC0603

Immunogen: Recombinant human α -synuclein (61-95) purified from *E. coli*

NCBI Accession No.: NP_000336

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human α -Synuclein mAb, clone 5C2, is derived from hybridization of mouse SP2/0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human α -synuclein protein. This antibody specifically recognizes α -synuclein only, particularly the NAC domain of α -synuclein.

Description: alpha-synuclein (amino acids 1-140), an acidic neuronal protein of 140 amino acids, is extremely heat-resistant and is natively unfolded with an extended structure primarily composed of random coils. α -synuclein has been suggested to be implicated in the pathogenesis of Parkinson's disease and related neurodegenerative disorders, and more recently, to be an important regulatory component of vesicular transport in neuronal cells. Specially, the non-AB component of amyloid plaques (NAC, amino acids 61-95) is a highly amyloidogenic peptide consisting of 35 amino acids which was first identified associated with senile plaques in the Alzheimer's disease brain.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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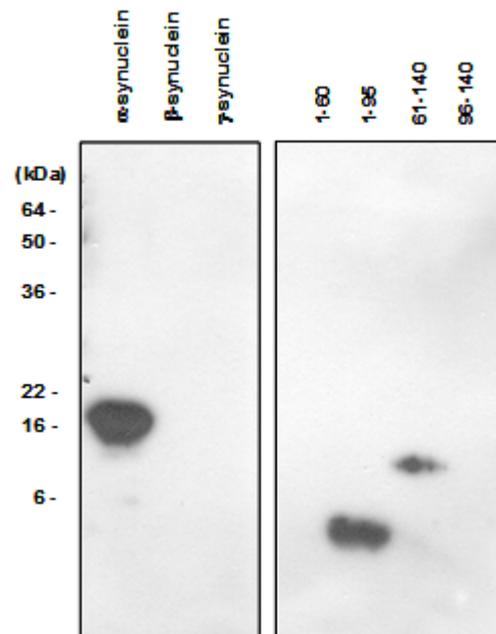
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Recommended dilution range for Western blot analysis is 1:500 ~ 1:2,000. This antibody (5C2) has the specificity against the NAC domain (61-95aa) of alpha-synuclein. Recommended starting dilution is 1:1,000.

Application: ELISA, WB

Western blot analysis

The recombinant human synuclein family (alpha-, beta- and gamma-) and alpha-synuclein domains (1-60, 1-95, 61-140 and 96-140) proteins were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-alpha-Synuclein (61-95 aa) antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



General references: Jakes, R., *et al.* (1994) *FEBS lett.* 345:27-32

Ueda, K., *et al.* (1993) *Proc. Natl.Acad. Sci. USA* 90:11282-11286

Kim, J. (1997) *Molecules and Cells* 7:78-83

Paik, S. R., *et al.* (1997) *Arch. Biochem. Biophys.* 344:325-334.

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