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## Human Synuclein-alpha/beta antibody

Catalog Number: ASC0632

## **PRODUCT INFORMATION**

## Catalog number

ASC0632

#### Clone No.

3B6

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P37840, Q16143

#### **NCBI Accession No.**

NP 000336, NP 003076

#### **Alternative Names**

SNCA, NACP, PARK1, PARK4, PD1,  $\alpha$ -synuclein Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, Parkinson disease 4, autosomal dominant Lewy body

## **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

## **Immunogen**

Recombinant human a-synuclein (119-140aa) purified from E. coli

## Isotype

IgG1 kappa

#### **Purification Note**

By protein-G affinity chromatography

## **Application**

ELISA, WB, ICC/IF, FACS

#### Usage

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



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#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

alpha-synuclein (amino acids 119-140), 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. alpha-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-Abeta component of amyloid plaques is a highly amyloidogenic peptide consisting of 35 amino acids which was first identified associated with senile plaques in the Alzheimer's disease brain.

#### **General References**

Jakes R., et al. (1994) FEBS lett. 345, 27-32.

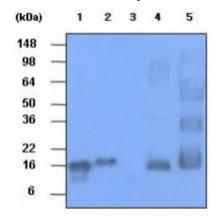
Ueda K., et al. (1993) Proc. Natl. Acad. Sci. USA 90, 11282-11286.

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

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

## **DATA**

## Western blot analysis (WB)



The recombinant protein (20ng) and tissue lysates (30ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HSP60 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant human alpha-synuclein protein

Lane 2.: Recombinant human beta-synuclein protein

Lane 3.: Recombinant human gamma-synuclein protein

Lane 4.: Mouse brain Tissue lysate

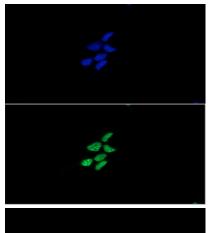
Lane 5.: Rat brain Tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

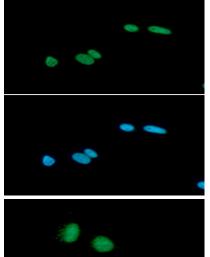


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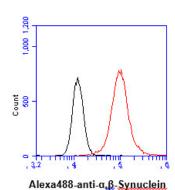
ICC/IF analysis of alpha, beta-Synuclein in LNCaP cells. The cell was stained with ACS0632 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of alpha, beta-Synuclein in U87MG cells. The cell was stained with ACS0632 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ICC/IF analysis of alpha, beta-Synuclein in C6 cells. The cell was stained with ACS0632 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

## Flow cytometry (FACS)

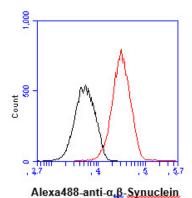


Flow cytometry analysis of alpha, beta-Synuclein in LNCaP cell line, staining at 2-5ug for  $1\times10^6$  (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

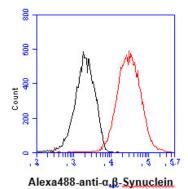


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Flow cytometry analysis of alpha, beta-Synuclein in U87MG cell line, staining at 2-5ug for  $1\times10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Flow cytometry analysis of alpha, beta-Synuclein in C6 cell line, staining at 2-5ug for  $1\times10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

