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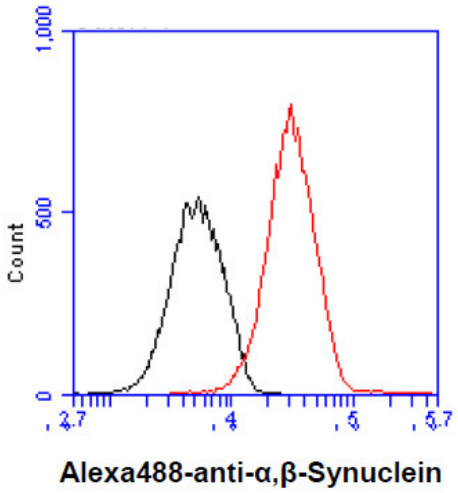
AM09033PU-S Monoclonal Antibody to Alpha-Synuclein / SNCA (also beta reactive) - Purified

Alternate names:	NACP, Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, PARK1
Quantity:	50 µl
Concentration:	1.0 mg/ml
Background:	α-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. 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-Aβ 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.
Uniprot ID:	P37840
NCBI:	NP_000336.1
GeneID:	6622
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	3B6
Immunogen:	Recombinant human α-synuclein (119-140aa) purified from E. coli
Format:	**State:** Liquid purified Ig fraction **Purification:** Protein-G affinity chromatography **Buffer System:** PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol
Applications:	**ELISA.** **Western blot** (1/1,000-1/2,000). **Flow Cytometry.** **Immunofluorescence.** Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody recognizes α,β - Synuclein. **Species:** Human, Mouse, Rat. Other species not tested.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:

Flow cytometry analysis of α,β -Synuclein LNCaP cell line staining at 2-5ug for 1x10^6 cells (red line). The secondary antibody used goat anti mouse IgG mouse IgG Alexa fluor 488 conjugate Isotype control antibody was mouse IgG (black line).



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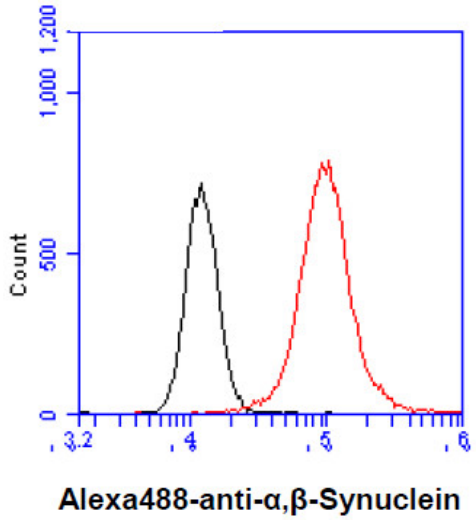
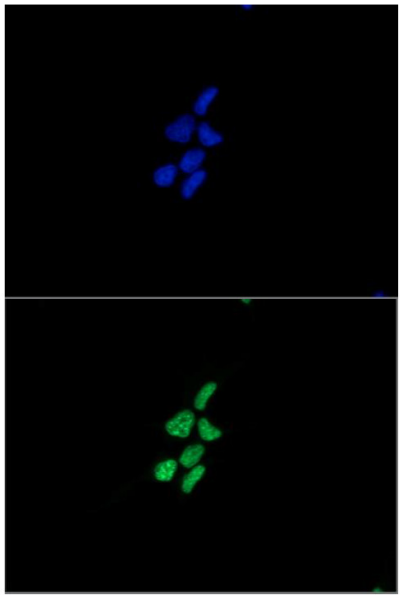


Immunofluorescence analysis of alpha, beta-Synuclein in LNCaP cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human alpha, beta-Synuclein antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



Western blot analysis: Lane 1 = α-synuclein, Lane 2 = β- synuclein, Lane 3 = γ- synuclein, Lane4 = Mouse brain, Lane 3 = Rat brain. The recombinant human synuclein family (α-, β- and γ-) (each 20 ng), Mouse brain and Rat brain (30 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human α-synuclein (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.