



## $\alpha$ -Synuclein (Ab-129) Antibody

#21183

**Catalog Number:** 21183-1, 21183-2

**Amount:** 50 $\mu$ g/50 $\mu$ l, 100 $\mu$ g/100 $\mu$ l

**Swiss-Prot No. :** P37840

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°C/1 year

**Immunogen:** The antiserum was produced against synthesized non-phosphopeptide derived from Human  $\alpha$ -Synuclein around the phosphorylation site of serine 129 (M-P-S<sup>P</sup>-E-E).

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

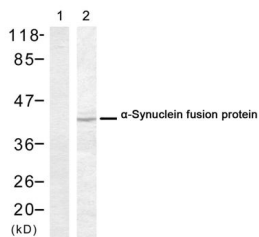
**Specificity/Sensitivity:**  $\alpha$ -Synuclein (Ab-129) antibody detects endogenous levels of total  $\alpha$ -Synuclein

**Reactivity:** Human, Mouse, Rat

### Applications:

Predicted MW: 18 kd

WB :1:500~1:1000



Western blot analysis of human  $\alpha$ -Synuclein fusion protein (44KD) expression in transfected HeLa cells (Lane 1, 2) using  $\alpha$ -Synuclein (Ab-129) antibody (#21183)

Peptide + -

**Background :** SncA is a member of the synuclein family of structurally related proteins that are prominently expressed in the central nervous system, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and SncA and Snc-Beta inhibit phospholipase D2 selectively. SncA may serve to integrate presynaptic signaling and membrane trafficking. Aggregated SncA proteins form brain lesions that are hallmarks of neurodegenerative synucleinopathies. Defects in SncA play a role in the pathogenesis of Parkinson disease. SncA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer disease. SncA shares 95% sequence homology with rat SncA. Rat SncA is specifically expressed in brain and is associated with synaptosomal membranes in neurons

### References:

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Ahn BH, et al. J Biol Chem 2002 Apr 05; 277(14): 12334-42

Negro A, et al. FASEB J 2002 Feb; 16(2): 210-2

Goldberg, et al. Nat. Cell Biol. 2000; 2, 115-119.