

# Monoclonal Anti-human $\alpha$ -synuclein

**Product reference: DDX0910**

## Description

$\alpha$ -synuclein (*snca*) is a 140 aas neuronal protein predominantly present in synaptic junctions, specially studied for its relevance in understanding sporadic and familial forms of Parkinson's disease and related neurodegenerative disorders. In an attempt to break the immunotolerance since the amino-acid sequence is highly conserved between species (95.3% homology between human and mouse), we have immunized C57BL/6 inbred mice presenting a natural deletion for *snca* with recombinant human  $\alpha$ -synuclein and obtained a murine mAb (AS11) recognizing endogenous human  $\alpha$ -synuclein. (*Kahle et al., 2000, J Neurosci 2000;20:6365-73* ; *Specht and Schoepfer, BMC Neurosci 2001;2:11* ; *Mougenot AL et al, J Neurosci Methods. 2010 Oct 15;192(2):268-76*).

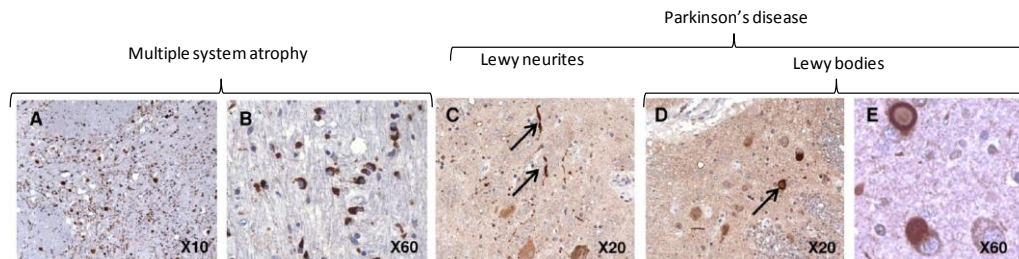
<b>Clone:</b>	<b>AS11</b>
<b>Species:</b>	mouse
<b>Specificity:</b>	N-terminal portion of human $\alpha$ -synuclein (aa1-60)
<b>Immunogen:</b>	rhu $\alpha$ -synuclein (SIGMA)
<b>Species cross-reactivity:</b>	negative for murine $\alpha$ -synuclein
<b>Isotype:</b>	<b>IgG</b>
<b>Purification:</b>	QMA Hyper D ion exchange chromatography
<b>Formulation/size:</b>	<b>Purified:</b> 100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l Tris-NaCl pH 8 <b>Coupled:</b> 100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l PBS 50% glycerol

## Available format

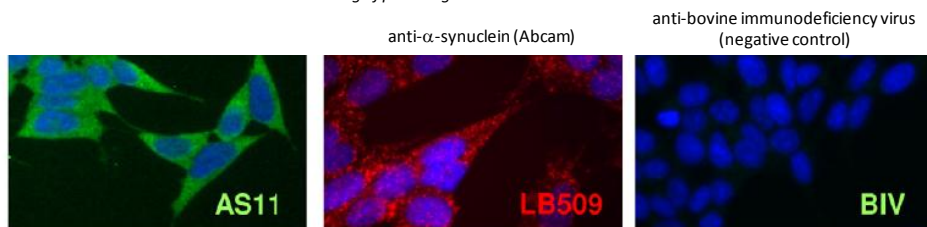
Reference		Format	Application tested
50 $\mu$ g	100 $\mu$ g		
DDX0910P-50	DDX0910P-100	Purified	WB, IF, IHC
DDX0910A488-50	DDX0910A488-100	Alexa-fluor@488	
DDX0910A546-50	DDX0910A546-100	Alexa-fluor@546	
DDX0910A647-50	DDX0910A647-100	Alexa-fluor@647	
DDX0910HRP-50	DDX0910HRP-100	Horse radish peroxydase	

*Other clones (IgM) available on request*

## Applications tested



IHC staining of pathological human brains with AS11



IF staining of human neuroblastoma (SH-SY5Y) expressing endogenous  $\alpha$ -synuclein

- Usage recommendation:**
- \*This monoclonal antibody may be used between 5-20  $\mu$ g/ml.
  - \*Optimal dilution should be determined by each laboratory for each application.
  - \*Coupled antibody: to maintain RT before use.

- Aliquot storage conditions:** -20°C. **KEEP CONTENTS STERILE: no preservative.**  
**Purified antibodies:** avoid repeated freeze/thaw cycles.  
**Coupled antibodies:** glycerol protects from freezing.

**Not for use in Humans. For research purpose only**