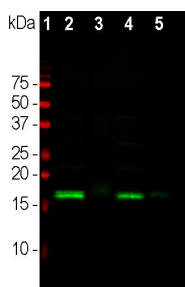




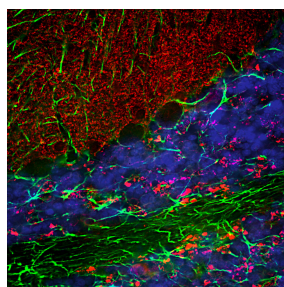
Cat. No:	AB-83921
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Chicken
Isotype:	IgY
Immunogen:	Full length recombinant human protein expressed in and purified from E. coli
Reactivity:	Human, rat, mouse, cow, pig, horse
Applications:	WB: 1:2,000. IF/ICC and IHC: 1:2,000-1:5,000.
Molecular Weight:	15kDa by SDS-PAGE
Purification:	Purified

Background: The CPCA-SNCA antibody recognizes full length human and rodent α -synuclein specifically both in western blots and in immunocytochemical experiments and is a good marker of synapses on rodents, including transgenic mice. We document that the antibody works well not only for western blotting, IF and ICC but also on formalin fixed paraffin embedded sections, select the "Additional Data" for this data. We also market a mouse monoclonal to α -synuclein. The 2A7 epitope is in the region 61-95 which corresponding to the central "non-amyloid beta component of Alzheimer's disease amyloid", a proteolytic fragment of α -synuclein which co-purified with Alzheimer's amyloid. This monoclonal antibody has been used as an ELISA capture reagent capable of detecting α -synuclein in human plasma in combination with a polyclonal antibody such as SNCA.

Form:	Liquid
Buffer:	Immunogen affinity purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN ₃
Storage:	Store at 4°C, for longer term store at -20°C. Stable for 12 months from date of receipt.



Western blot analysis of different tissue lysates using chicken pAb to α -synuclein, CPCA-SNCA, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. The strong band at about 15kDa corresponds to the α -synuclein protein in brain extracts, which are rich in



Immunofluorescent analysis of a section of rat cerebellum stained with chicken pAb to α -synuclein, dilution 1:3,000 in red, and costained with rabbit pAb to GFAP, GFAP, dilution 1:5,000 in green. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ m, and

synapses, while a weaker band is seen in spinal cord extracts where synapses are a more minor component.

free-floating sections were stained with above antibodies. The α -synuclein protein is concentrated in presynaptic regions in the granular and molecular layers, while GFAP antibody stains the network of Bergmann and astroglial cells.

**For Research use only
IMMUNOLOGICAL SCIENCES**