

Chicken alpha Synuclein Polyclonal Antibody | anti-SNCA antibody

alpha Synuclein

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76715	Chicken	Human, Mouse, Rat, Bovine, Porcine, Equine	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

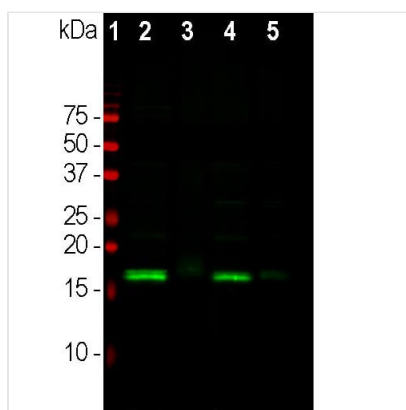
PRODUCT SYNONYMS

alpha Synuclein; Polyclonal Antibody; anti-SNCA antibody

PRODUCT SPECIFICATIONS

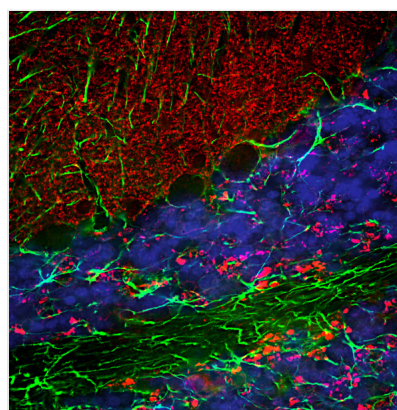
Host	Chicken
Reactivity	Human, Mouse, Rat, Bovine, Porcine, Equine
Clonality	Polyclonal
Isotype	Chicken IgY
Form/Format	Liquid. Affinity purified antibody at 1mg/mL in 50% PBS, 50%glycerol plus 5mM NaN3
Applicable Applications for anti-SNCA antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Full length recombinant human protein expressed in and purified from E coli
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for sixmonths without detectable loss of activity. The antibody can be stored at 2 degree - 8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of different tissue lysates using chicken pAb to alpha-synuclein, AAA76715, 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 alpha-synuclein protein in brain extracts, which are rich in synapses, while a weaker band is seen in spinal cord extracts where synapses are a more minor component.



IF (Immunofluorescence)

Immunofluorescent analysis of a section of rat cerebellum stained with chicken pAb to alpha-synuclein, AAA76715, dilution 1:3,000 in red, and costained with rabbit pAb to GFAP 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 45uM, and free-floating sections were stained with above antibodies.

ADDITIONAL INFORMATION

Related Product Information for anti-SNCA antibody	alpha-synuclein is a member of the synuclein protein family, the other two members being beta and gamma synuclein, each protein being coded for by a distinct but related gene. alpha-synuclein was originally isolated as a major synaptic vesicle associated protein from the electric organ of the fish Torpedo, and direct homologues of alpha-synuclein are found in all vertebrates. Later work connected alpha-synuclein expression with several human brain pathologies, so that it is a major component of the Lewy bodies of Parkinson's disease. Point mutations of alpha-synuclein proved to be causative of some forms of familial Parkinson's disease. alpha-synuclein is also found in the Lewy bodies of patients with diffuse Lewy body disease and inclusions in glial cells in the brains of patients with multiple system atrophy and amyotrophic lateral sclerosis. alpha-synuclein is normally heavily expressed in brain and appears to be localized primarily to presynaptic regions, though not with a typical synaptic vesicle distribution pattern. This antibody recognizes full length human and rodent alpha-synuclein specifically both in western blots and in immunocytochemical experiments and is a good marker of synapses on transgenic mice.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507109
NCBI GeneID	6622
NCBI Accession #	NP_000336.1
NCBI GenBank Nucleotide #	NM_000345.3
UniProt Accession #	P37840; Q13701; Q4JHI3; Q6IAU6; A8K2A4
Molecular Weight	14,460 Da
NCBI Official Full Name	alpha-synuclein isoform NACP140
NCBI Official Synonym Full Names	synuclein, alpha (non A4 component of amyloid precursor)
NCBI Official Symbol	SNCA
NCBI Official Synonym Symbols	PD1; NACP; PARK1; PARK4
NCBI Protein Information	alpha-synuclein; synuclein alpha-140; non A-beta component of AD amyloid
UniProt Protein Name	Alpha-synuclein
UniProt Gene Name	SNCA
UniProt Synonym Gene Names	NACP; PARK1; NACP
UniProt Entry Name	SYUA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.