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PRODUCT DATASHEET

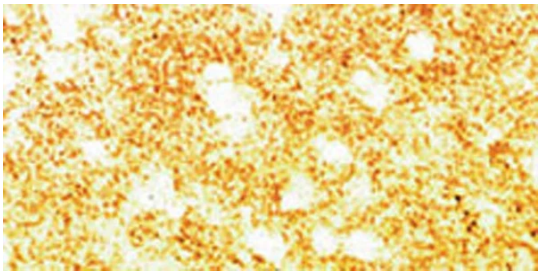
Anti-Alpha-synuclein Antibody

Product Details

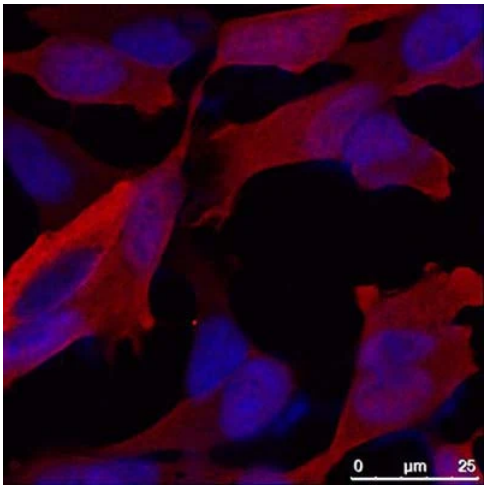
Available Variants	50 µg (SKU:S-078-50)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Sheep
Format	Affinity-purified
Physical State	Lyophilized
Production Notes	Affinity purified and dialysed against PBS. Contains 0.02% sodium azide.
Applications	IHC
Dilution Ranges	IHC: 1 µg/mL
Species Reactivity	Human, Rat
Immunogen	A synthetic peptide (PQEGILEDMPVDPC) of human alpha synuclein protein (aa: 108-120) conjugated to diphtheria toxoid has been used as the immunogen.
Specificity	Immunihistochemical analysis of human and rat brain indicates a high level of specificity for this antiserum. Specificity was also confirmed by Western blot. This antiserum is known to react with human and rat alpha synuclein.
Storage	Spin vial briefly before opening. Reconstitute in 50 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20°C for a higher stability, and at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
UniProt ID	P37840 UniProt Summary: Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. Participates as a monomer in synaptic vesicle exocytosis by enhancing vesicle priming, fusion and dilation of exocytotic fusion

	pores. Mechanistically, acts by increasing local Ca(2+) release from microdomains which is essential for the enhancement of ATP-induced exocytosis. Also acts as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5. This chaperone activity is important to sustain normal SNARE-complex assembly during aging. Also plays a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	6622

Product Images



Immunohistochemical staining (paraffin-embedded tissue) of alpha synuclein in human neocortex using sheep polyclonal to human alpha synuclein, catalogue number S-078-50.



Immunofluorescence staining of alpha synuclein in cultured cells using Sheep antibody to alpha synuclein, catalog number S-078-50 and fluorescent-labelled secondary antibody. Image courtesy of Dr Wei-Ping Gai, Flinders University of South Australia.

Created on 19. November 2026 | All information without guarantee