

Anti- α -synuclein Reference Antibody (Exidavnemab)

Catalog # APR11189

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P37840
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP-noK
Calculated MW	14460

Additional Information

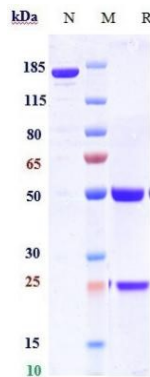
Target/Specificity	Alpha-synuclein
Expression system	CHO

Protein Information

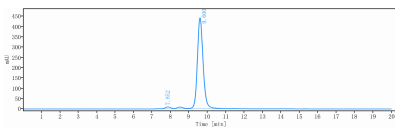
Name	SNCA
Synonyms	NACP, PARK1
Function	Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release (PubMed:20798282, PubMed:26442590, PubMed:28288128, PubMed:30404828). Participates as a monomer in synaptic vesicle exocytosis by enhancing vesicle priming, fusion and dilation of exocytotic fusion pores (PubMed:28288128, PubMed:30404828). Mechanistically, acts by increasing local Ca(2+) release from microdomains which is essential for the enhancement of ATP-induced exocytosis (PubMed:30404828). 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-α/DNAJC5 (PubMed:20798282). This chaperone activity is important to sustain normal SNARE-complex assembly during aging (PubMed:20798282). Also plays a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity (PubMed:26442590).
Cellular Location	Cytoplasm. Membrane Nucleus Synapse. Secreted. Cell projection, axon {ECO:0000250 UniProtKB:O55042}. Note=Membrane-bound in dopaminergic neurons (PubMed:15282274). Expressed and colocalized with SEPTIN4 in dopaminergic axon terminals, especially at the varicosities (By similarity). {ECO:0000250 UniProtKB:O55042, ECO:0000269 PubMed:15282274}
Tissue Location	Highly expressed in presynaptic terminals in the central nervous system.

Expressed principally in brain

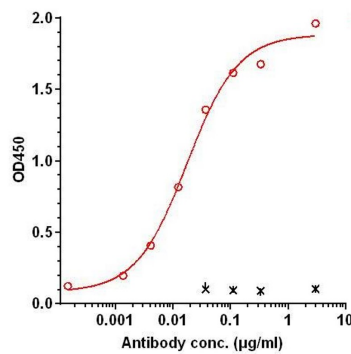
Images



Anti- α -synuclein Reference Antibody (Exidavnemab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti- α -synuclein Reference Antibody (Exidavnemab) is 98.1%, determined by SEC-HPLC.



Immobilized PHA008 Human Alpha-synuclein, Fc Tag at 2 μ g/mL can bind Exidavnemab, EC₅₀= 0.01769 μ g/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.