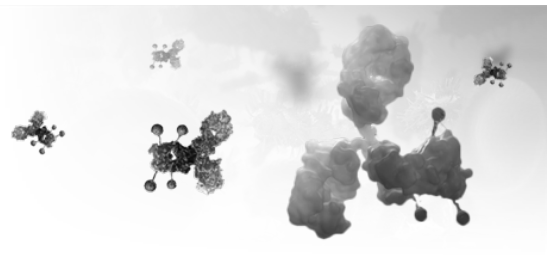

Anti-α-Synuclein (phospho S129) monoclonal antibody, clone 92B (CABT-B1398)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It detected CK1- and CK2-catalyzed alpha-synuclein Ser129 phosphorylation, but not CK1-catalyzed alpha-synuclein Ser87 phosphorylation, nor non-phosphorylated alpha-synuclein.
Immunogen	KLH-conjugated linear peptide corresponding a human α-synuclein sequence with the phosphorylated Ser129.
Isotype	IgG2a, κ
Source/Host	Mouse
Species Reactivity	Human, Mouse
Clone	92B
Purification	Protein G Purified
Conjugate	Unconjugated
Epitope	pSer129
Molecular Weight	14.46 kDa calculated.
Format	Liquid
Concentration	Please refer to lot specific datasheet.
Size	100 μg
Buffer	PBS
Preservative	0.05% Sodium Azide
Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	Alpha-synuclein (UniProt P37840; also known as NACP, Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, Synuclein alpha-140) is encoded by the SNCA (also

known as NACP, PARK1, PARK4) gene (Gene ID 6622) in human. Pathological aggregates are common features of many neurodegenerative diseases, such as tau neurofibrillary tangles (NFTs) in Alzheimer's disease (AD) and frontotemporal degeneration, and α-synuclein (α-syn) Lewy bodies (LBs) in Parkinson's disease (PD) and dementia with LB (DLB). Alpha-synuclein is a phospholipid-binding protein concentrated in presynaptic terminals where it promotes SNARE complex formation and modulates synaptic functions. Alpha-synuclein is the major component of pathologic inclusions that characterize PD, DLB, and multiple system atrophy (MSA). Both casein kinase-1 (CK-1) and CK-2 can catalyze the phosphorylation of alpha-synuclein on Ser129, and Ser129-phosphorylated alpha-synuclein is found in alpha-synuclein inclusions.

GENE INFORMATION

Entrez Gene ID	6622
UniProt ID	P37840