



Anti-Synuclein polyclonal antibody (DPAB2690RH)

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

PRODUCT INFORMATION

Product Overview	Rabbit polyclonal to human pan-synuclein.
Antigen Description	<p>Synuclein is a small, soluble protein primarily expressed in neural tissue. The synuclein family includes three known proteins: α-synuclein, β-synuclein, and γ-synuclein. α-Synuclein is a very conserved, small acidic protein (140 residues) with a molecular weight of approximately 19 kDa that accounts for about 1% of total protein in neurons. It is concentrated primarily in presynaptic axon terminals and plays a central role in initiating Parkinson's disease. It is the principal constituent of Lewy bodies which are formed by protein aggregation and inclusion body formation. α-Synuclein lacks secondary or tertiary structure, so it belongs to the family of natively unfolded proteins, many of which act as chaperones. Much of this α-synuclein has been post-translationally modified to increase the rate of oligomerization. Mutant forms of α-Synuclein are associated with autosomal dominant Parkinson's disease. The mutations increase the aggregation rate of the resultant synuclein. β-Synuclein is found primarily in brain tissue and is seen mainly in presynaptic terminals. It is predominantly expressed in the neocortex, hippocampus, striatum, thalamus, and cerebellum. β-Synuclein may protect the central nervous system from the neurotoxic effects of α-synuclein by inhibiting aggregation of α-synuclein which occurs in neurodegenerative diseases such as Parkinson's disease. γ-Synuclein is a synuclein protein found primarily in the peripheral nervous system (in primary sensory neurons, sympathetic neurons, and motor neurons) and retina. γ-Synuclein expression in breast tumors is a marker for tumor progression.</p>
Immunogen	Recombinant human protein purified from E.coli (HIS-beta-Synuclein).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated

Applications	WB
Cellular Localization	Cytoplasm
Positive Control	Mouse brain
Format	HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol.
Concentration	1 mg/ml
Size	100 µl
Preservative	0.03% Sodium Azide
Storage	Store for 1 year at -20 °C from date of shipment.

GENE INFORMATION

Gene Name	SNCB synuclein, beta [Homo sapiens]
Synonyms	SNCB; synuclein, beta; beta-synuclein; OTTHUMP00000161244; OTTHUMP00000223368; OTTHUMP00000223369; OTTHUMP- 00000223370
Entrez Gene ID	6620
Protein Refseq	NP_001001502
UniProt ID	Q16143
Chromosome Location	5q35
Function	calcium ion binding; phospholipase inhibitor activity