

Datasheet for 500-301-E56**Alpha Synuclein Antibody****Overview**

Description:	Anti-Alpha Synuclein (MOUSE) Antibody - 500-301-E56
Item No.:	500-301-E56
Size:	100 µL
Applications:	IF, Multiplex, WB
Reactivity:	Human, Mouse, Rat, Bovine, Pig
Host Species:	Mouse

Product Details

Background:	Alpha Synuclein Antibody detects Alpha Synuclein protein. Alpha-synuclein is a presynaptic neuronal protein that is thought to be involved in the formation of SNARE complexes. Most significantly, aggregated alpha-synuclein is one of the major components found in the Lewy bodies that occur in Parkinson's disease (PD) and other neurodegenerative disorders. Early onset Parkinson's disease may be caused by a duplication or triplication of one of the alpha synuclein genes. 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 (MSA) and amyotrophic lateral sclerosis (ALS). Anti-Alpha-synuclein antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research.
Synonyms:	mouse anti-Alpha Synuclein Antibody, Non-A beta component of AD amyloid, Non-A4 component of amyloid precursor, NACP
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	2A7
Format:	IgG

Target Details

Gene Name:	SNCA
Reactivity:	Human, Mouse, Rat, Bovine, Pig
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-Alpha Synuclein Antibody was produced by repeated immunizations with full length human alpha synuclein expressed in E. coli.
Purity/Specificity:	Anti-Alpha Synuclein Antibody is directed against human Alpha Synuclein protein. The antibody was purified by protein G purification from tissue culture supernatant. Reactivity is expected against alpha synuclein from most mammalian species based on 100% sequence homology. Cross reactivity with Alpha Synuclein from other sources has not been determined.
Relevant Links:	• UniProtKB - P37840 • GeneID - 6622 • UniProtKB - P37840.1

Application Details

Tested Applications:	IF, Multiplex, WB
Application Note:	Alpha Synuclein antibody is tested for use in Western Blotting and IF. Specific conditions should be optimized by the end user. Expect a band of approximately 15 kDa in size corresponding to the alpha synuclein proteins in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	1:500
WB:	1:1000

Formulation

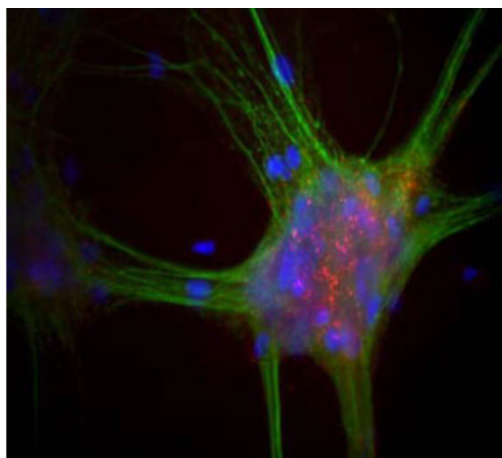
Physical State:	Liquid
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

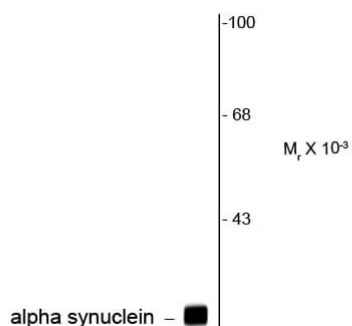
Images



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Alpha-synuclein (Mouse) Antibody. Tissue: Mixed neuron-glia cultures. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Alpha-synuclein antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: alpha-synuclein antibody stains vesicular structures, the perikarya and processes of the neurons in this image. Staining: alpha-synuclein (red) and chicken MAP2 (green).

Anti-alpha Synuclein



Western Blot

Western Blot of Anti-alpha Synuclein (Mouse) Antibody. Lane 1: rat brain lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: alpha synuclein antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~ 15kDa/~15kDa for alpha synuclein protein. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.