For Research Use Only

Alpha Synuclein Monoclonal antibody

Catalog Number:66412-1-lg 3 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66412-1-lg BC013293 Protein A purification GeneID (NCBI): CloneNo.:

150ul, Concentration: 1400 ug/ml by 6622 1B10E9

Nanodrop and 1000 ug/ml by Bradford_{UNIPROT ID:} Recommended Dilutions: method using BSA as the standard; P37840 WB: 1:500-1:2000 Source: IHC: 1:500-1:2000 Full Name: IF-P: 1:200-1:800

Mouse synuclein, alpha (non A4 component Isotype:

of amyloid precursor) IgG2a Calculated MW:

Immunogen Catalog Number: AG1285 Observed MW:

18-19 kDa

14 kDa

Applications

Tested Applications: WB, IHC, IF-P, ELISA

Cited Applications:

Species Specificity: human, mouse, rat

Cited Species: human, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse brain tissue, rat brain tissue

IHC: mouse cerebellum tissue, human brain tissue,

Purification Method:

mouse brain tissue

IF-P: mouse cerebellum tissue.

Background Information

Alpha Synuclein (a-syn) is a 14-19 kDa phosphoprotein that is primarily localize to the presynaptic terminals of mature neurons, where it is involved in synaptic function and plasticity. a-syn has drawn intense interest ever since the late 1990s, when the first a-synuclein missense mutation was identified as a cause of familial Parkinson's disease (PD). Aggregated and hyper-phosphorylated forms of a-syn protein are the pathological hallmark of Lewy body disease, which includes Parkinson's disease (PD), diffuse Lewy body disease (DLBD), and Lewy body variant of Alzheimer's disease (LBV). This antibody can recognize all the isoforms of $\alpha\text{-syn}.$

Notable Publications

Author	Pubmed ID	Journal	Application
Li-Hua Bian	35728354	Biomed Pharmacother	IHC
Jihua Shi	36795141	Appl Microbiol Biotechnol	IF
Wenfeng Liu	31750928	J Neuropathol Exp Neurol	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

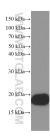
For technical support and original validation data for this product please contact:

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E: proteintech@ptglab.com W: ptglab.com

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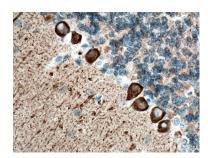
Selected Validation Data



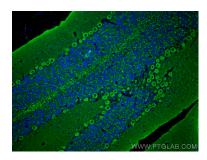
mouse brain tissue were subjected to SDS PAGE followed by western blot with 66412-1-lg (a-Synuclein Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



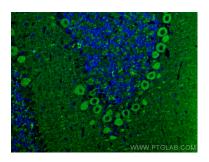
Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using 66412-1-1g (alpha-Synuclein antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



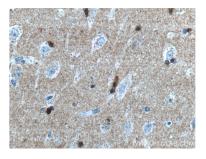
Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using 66412-1-lg (alpha-Synuclein antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



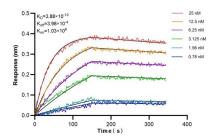
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using Alpha Synuclein antibody (66412-1-lg, Clone: 1810E9) at dilution of 1:400 and Multi-rAb Coralite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using Alpha Synuclein antibody (66412-1-lg, Clone: 1810E9) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (nH 9 0)



Immunohistochemical analysis of paraffinembedded human brain tissue slide using 66412-1-Ig (a-Synuclein antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 66412-1-Ig against Human SNCA were performed. The affinity constant is 0.388 nM.