For Research Use Only

Alpha Synuclein Polyclonal antibody

Catalog Number:10842-1-AP Featured Product 75 Publications

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Basic Information

Catalog Number:
10842-1-AP

Concentration:
590 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1285

GenBank Accession Number:
BC013293

GeneID (NCBI):
6622

UNIPROT ID:
P37840

Full Name:
synuclein, alpha (non A4 component of amyloid precursor)

Calculated MW:
14 kDa

Observed MW:
15-19 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IHC: 1:50-1:500
IF-Fro: 1:50-1:500
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-Fro, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, ELISA

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, yeast, zebra finch

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, human brain tissue, rat brain tissue

IHC : mouse brain tissue, human kidney tissue, human placenta tissue, human testis tissue, human skin tissue, human lung tissue

IF-Fro : rat brain tissue,

IF/ICC : SH-SY5Y cells,

Background Information

Alpha Synuclein (α -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 α -synuclein missense mutation was identified as a cause of familial Parkinson's disease (PD). Aggregated and hyper-phosphorylated forms of α -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 α -syn.

Notable Publications

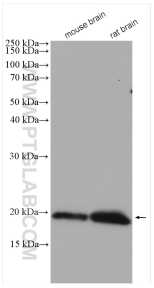
Author	Pubmed ID	Journal	Application
Damilare D Akintade	33003464	Cells	WB
Kuo-Hsuan Chang	34551822	Stem Cell Res Ther	WB
Wen-Li Dong	34531546	Acta Pharmacol Sin	WB

Storage

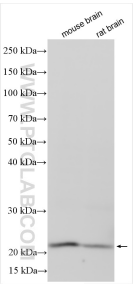
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

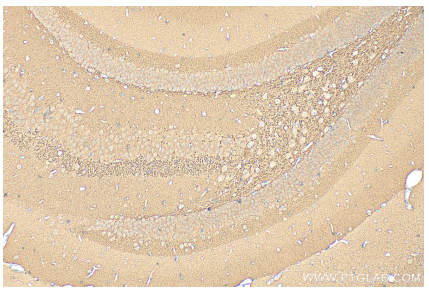
Selected Validation Data



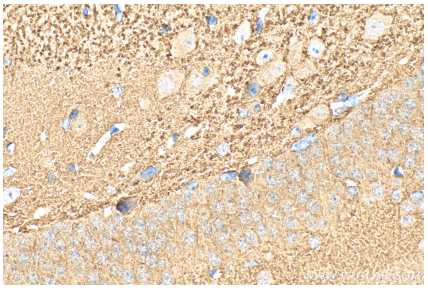
Various lysates were subjected to SDS PAGE followed by western blot with 10842-1-AP (alpha-synuclein antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



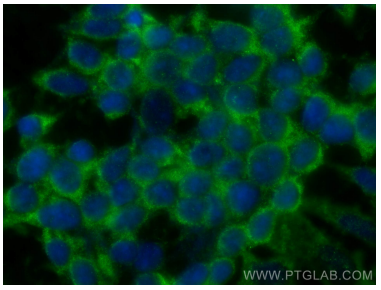
Various lysates were subjected to SDS PAGE followed by western blot with 10842-1-AP (Alpha Synuclein antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



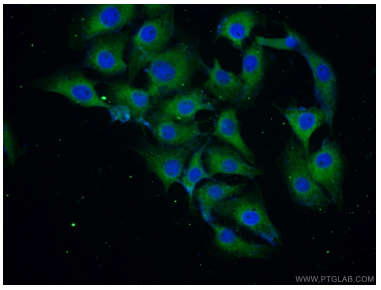
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10842-1-AP (Alpha Synuclein antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



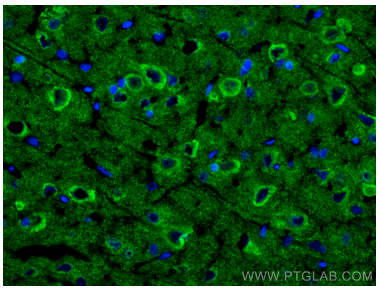
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10842-1-AP (Alpha Synuclein antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Alpha Synuclein antibody (10842-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of SH-SY5Y cells using 10842-1-AP (alpha-synuclein antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded rat brain tissue using Alpha Synuclein antibody (10842-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).