



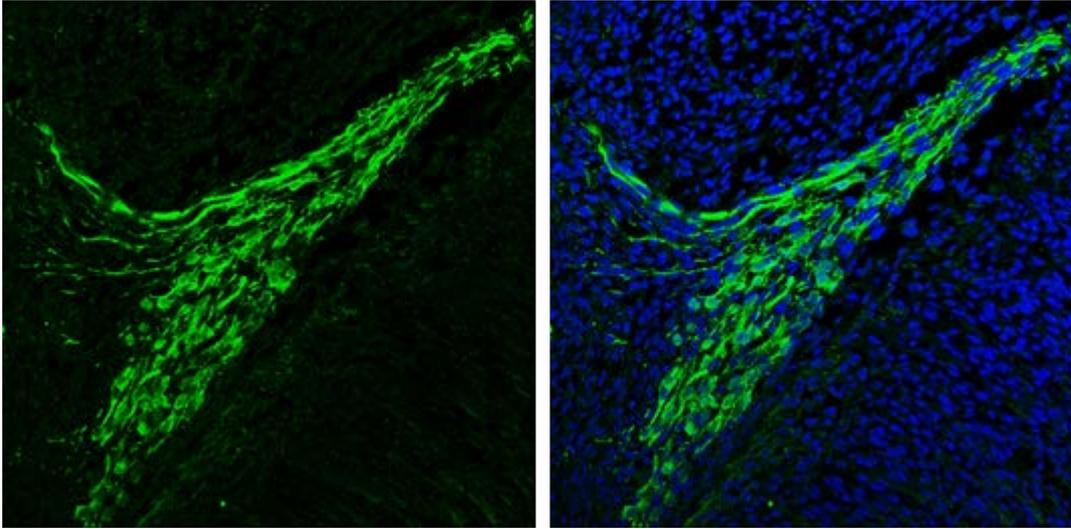
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GeneTex International Corporation : Tel:886-3-6208988 Fax:886-3-6208989 infoasia@genetex.com

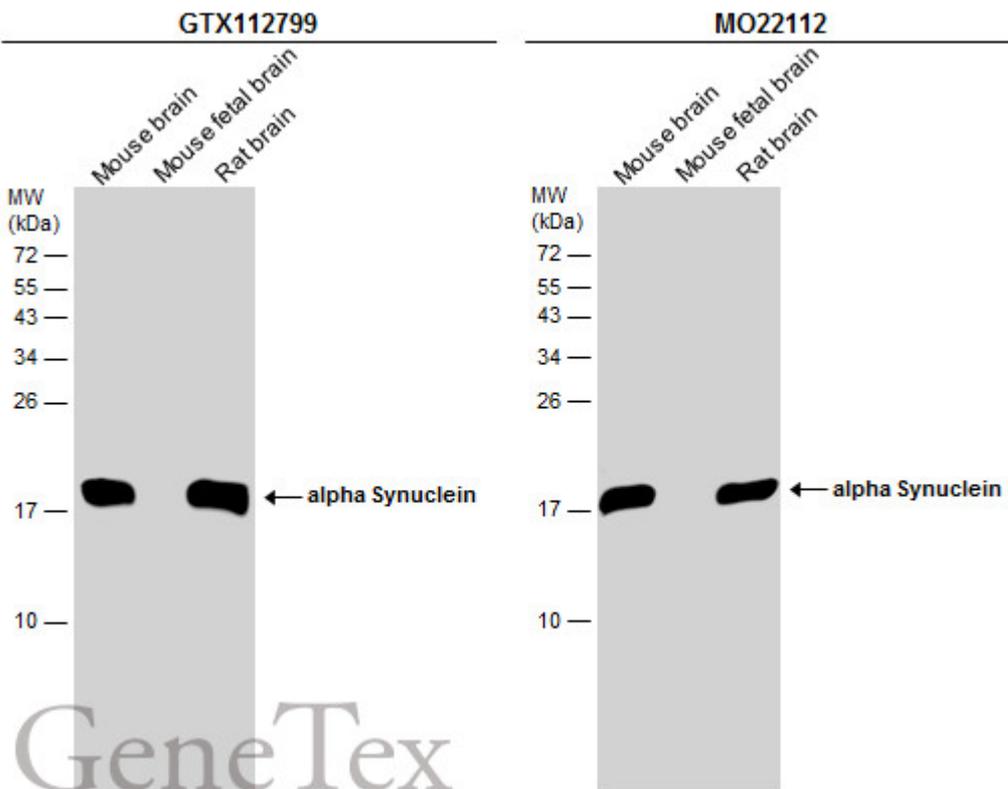
Date : 2018/08/02

Catalog Number	GTX112799	Package:25 ul,100 ul															
Product Name	 (2)																
Full Name	alpha Synuclein antibody																
Synonyms	synuclein, alpha (non A4 component of amyloid precursor) MGC110988 antibody, NACP antibody, PARK1 antibody, PARK4 antibody, PD1 antibody, SNCA antibody, non A-beta component of AD amyloid antibody, alpha-synuclein antibody, alpha-synuclein, isoform NACP140 antibody, synuclein alpha-140 antibody, synuclein, alpha (non A4 component of amyloid precursor) antibody																
Background	Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. SNCA may serve to integrate presynaptic signaling and membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease. Four alternatively spliced transcripts encoding two different isoforms have been identified for this gene. [provided by RefSeq]																
Host	Rabbit																
Clonality	Polyclonal																
Isotype	IgG																
Immunogen	Full length human alpha Synuclein Recombinant protein.																
Antigen Species	Human																
Species Reactivity	Human, Mouse, Rat																
Predicted Cross Reactivity species	Xenopus laevis, Pig, Chicken, Sheep, Chimpanzee, Bovine																
Predict Reactivity Note	Xenopus laevis (85%), Pig (97%), Chicken (88%), Sheep (95%), Chimpanzee (100%), Bovine (94%)																
Applications	ICC/IF, IHC-Fr, IHC-P, WB																
Application Note	<table border="0"> <thead> <tr> <th></th> <th>Suggested dilution</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>Immunocytochemistry/ Immunofluorescence (ICC/IF)</td> <td>1:100-1:1000*</td> <td></td> </tr> <tr> <td>IHC (Frozen sections)</td> <td>1:100-1:1000*</td> <td></td> </tr> <tr> <td>IHC (Formalin-fixed paraffin-embedded sections)</td> <td>1:100-1:1000*</td> <td></td> </tr> <tr> <td>Western Blot (WB)</td> <td>1:500-1:3000*</td> <td></td> </tr> </tbody> </table> <p>Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.</p>		Suggested dilution	Reference	Immunocytochemistry/ Immunofluorescence (ICC/IF)	1:100-1:1000*		IHC (Frozen sections)	1:100-1:1000*		IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*		Western Blot (WB)	1:500-1:3000*		
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Positive Controls	U87-MG , SK-N-SH , IMR-32 , SK-N-AS , mouse brain , rat brain																
Predicted Target Size	14 kDa																
Cellular Localization	Cytoplasm , Membrane , Nucleus																
Conjugation	Unconjugated																
Form Supplied	Liquid																
Purification	Purified by antigen-affinity chromatography.																
Concentration	0.24 mg/ml (Please refer to the vial label for the specific concentration)																
Storage Buffer	1XPBS, 1% BSA, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.																
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.																
Notes	For <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.																
ResearchArea	Cancer > Apoptosis > Anti-apoptosis																

1. Lee S (2017) *Korean J Physiol Pharmacol* 625-632 2. Bastias-Candia S (2015) *Environ Toxicol* 656-63

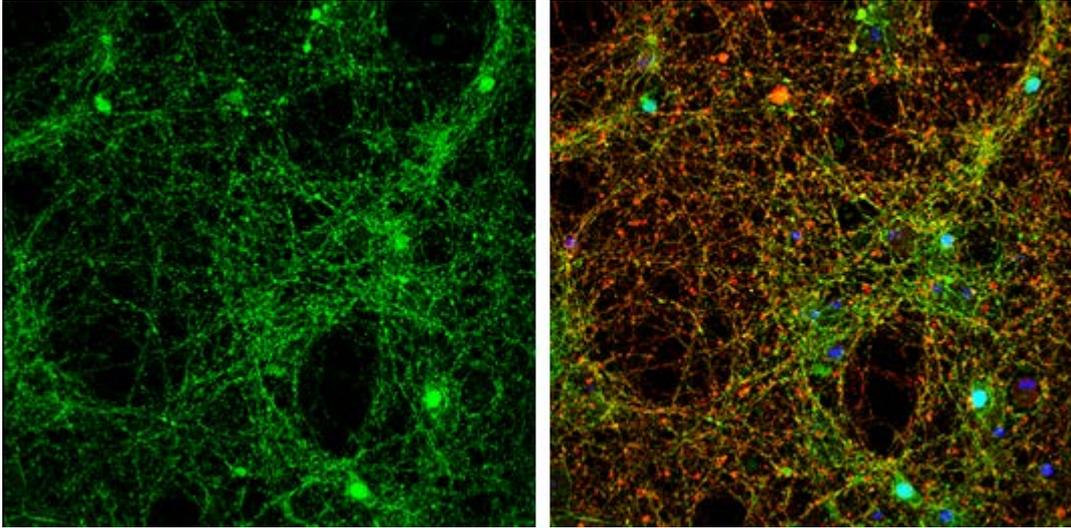


- GTX112799 IHC-Fr Image
- alpha Synuclein antibody detects alpha Synuclein protein expression by immunohistochemical analysis.
Sample: Frozen sectioned E13.5 Rat brain.
Green: alpha Synuclein protein stained by alpha Synuclein antibody (GTX112799) diluted at 1:250.
Blue: Fluoroshield with DAPI (GTX30920).

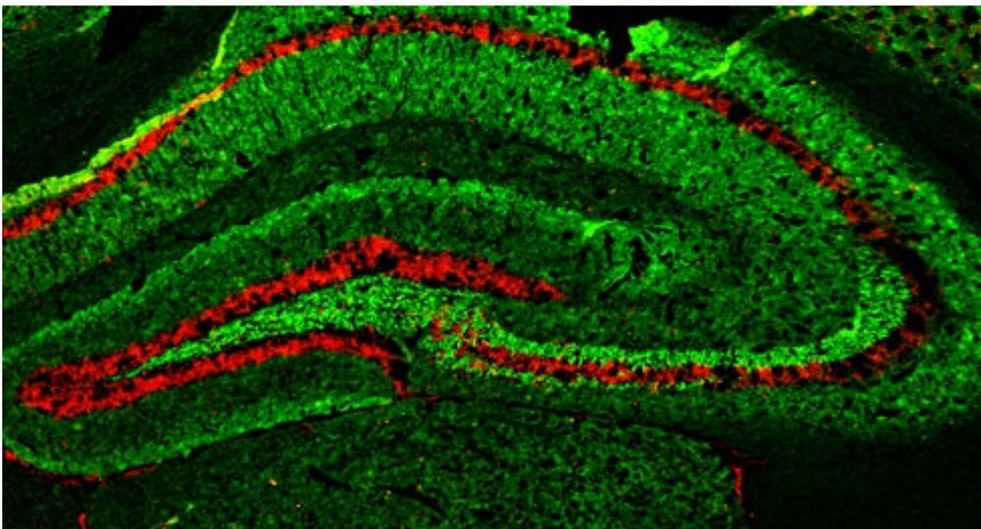
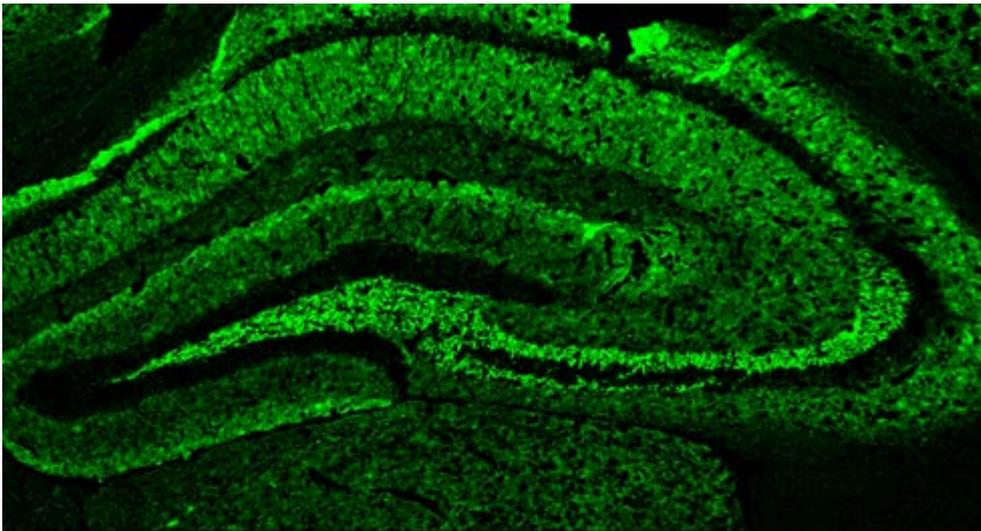


- GTX112799 WB Image
- Various tissue extracts (50 μ g) were separated by 15% SDS-PAGE, and the membranes were blotted with alpha Synuclein antibody (GTX112799) diluted at 1:2000 and competitor's antibody (MO22112) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

*The competitor is not affiliated with GeneTex and does not endorse this product.

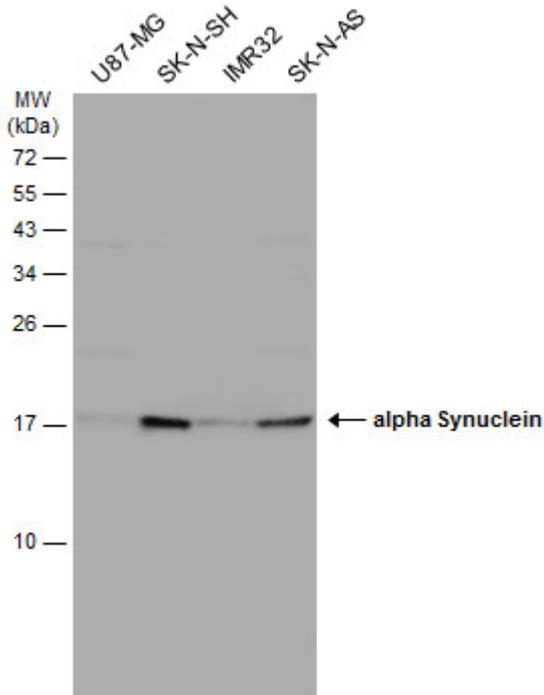


- GTX112799 ICC/IF Image
- alpha Synuclein antibody detects alpha Synuclein protein by immunofluorescent analysis.
 Sample: DIV14 rat E18 primary cortical neurons were fixed in 4% paraformaldehyde at RT for 15 min.
 Green: alpha Synuclein protein stained by alpha Synuclein antibody (GTX112799) diluted at 1:500.
 Red: beta Tubulin 3/ Tuj1, stained by beta Tubulin 3/ Tuj1 antibody [GT1338] (GTX631831) diluted at 1:500.
 Blue: Fluoroshield with DAPI (GTX30920).

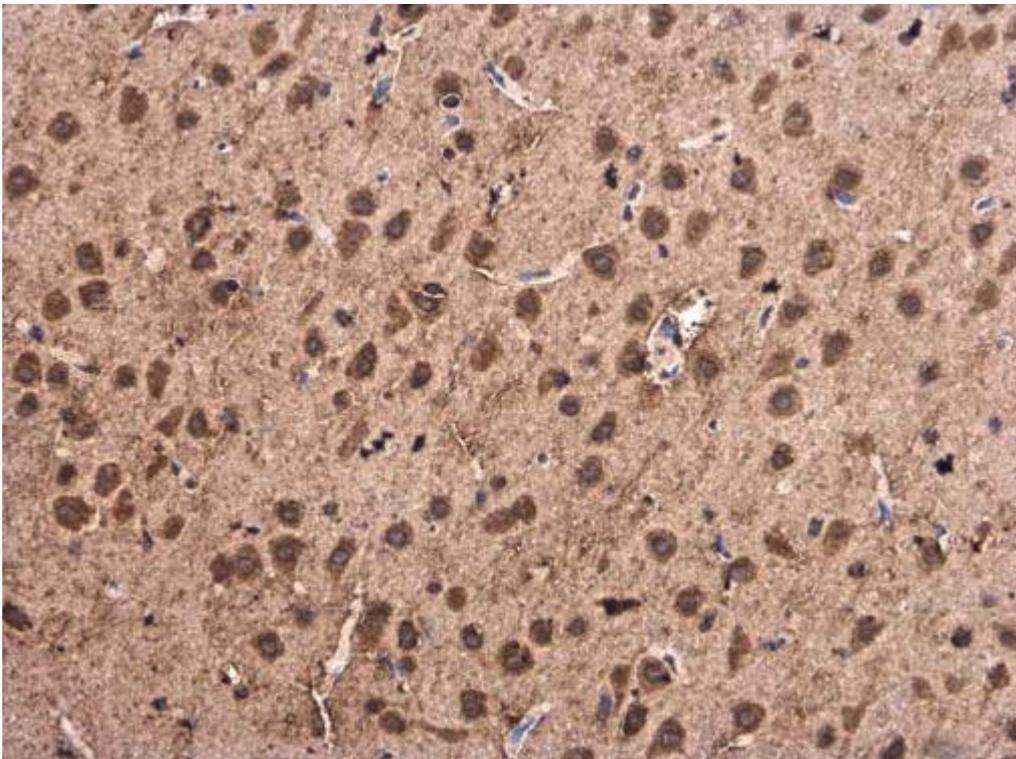


- GTX112799 IHC-Fr Image
- alpha Synuclein antibody detects alpha Synuclein protein expression by immunohistochemical analysis.
 Sample: Frozen-sectioned adult mouse hippocampus.

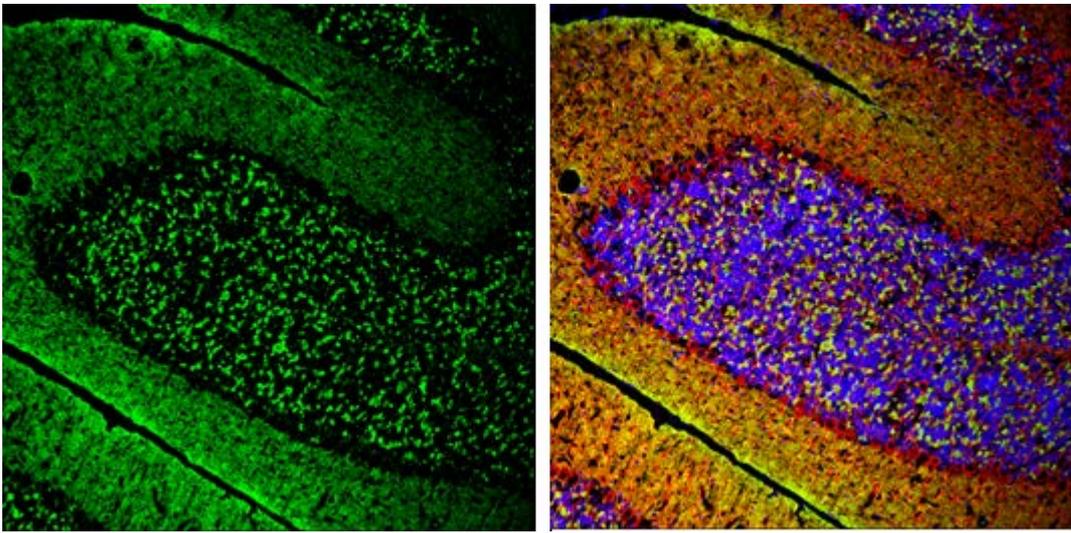
Green: alpha Synuclein protein stained by alpha Synuclein antibody (GTX112799) diluted at 1:250.
Red: NeuN, stained by NeuN antibody [2Q158] (GTX30773) diluted at 1:500.



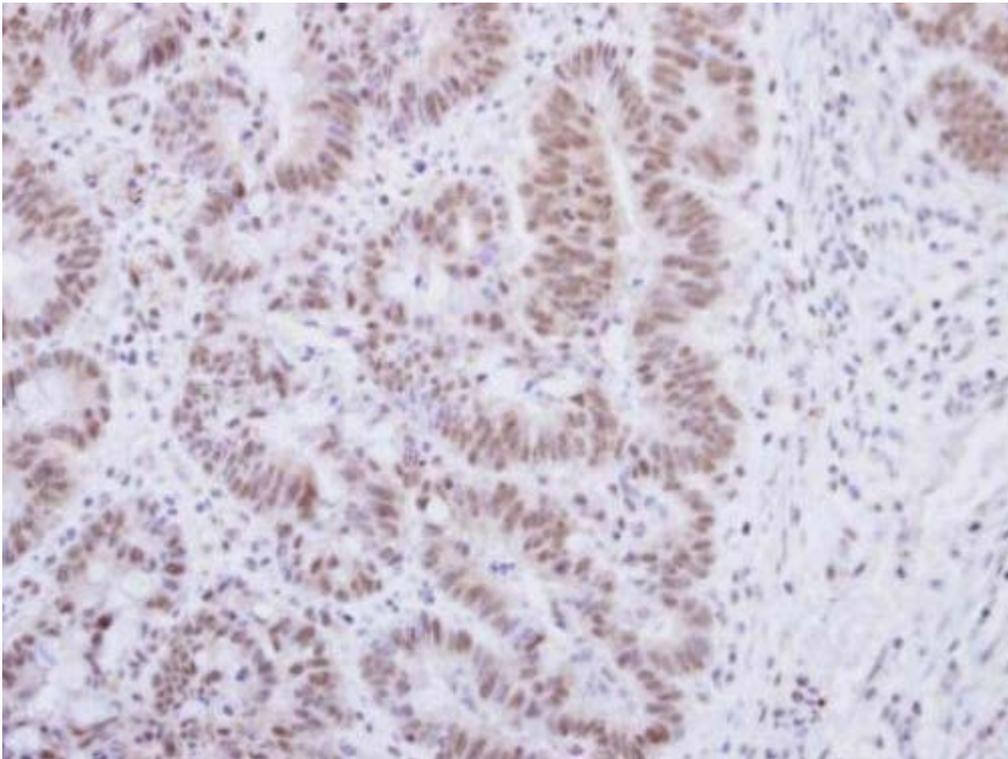
- GTX112799 WB Image
- Various whole cell extracts (30 μ g) were separated by 15% SDS-PAGE, and the membrane was blotted with alpha Synuclein antibody (GTX112799) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



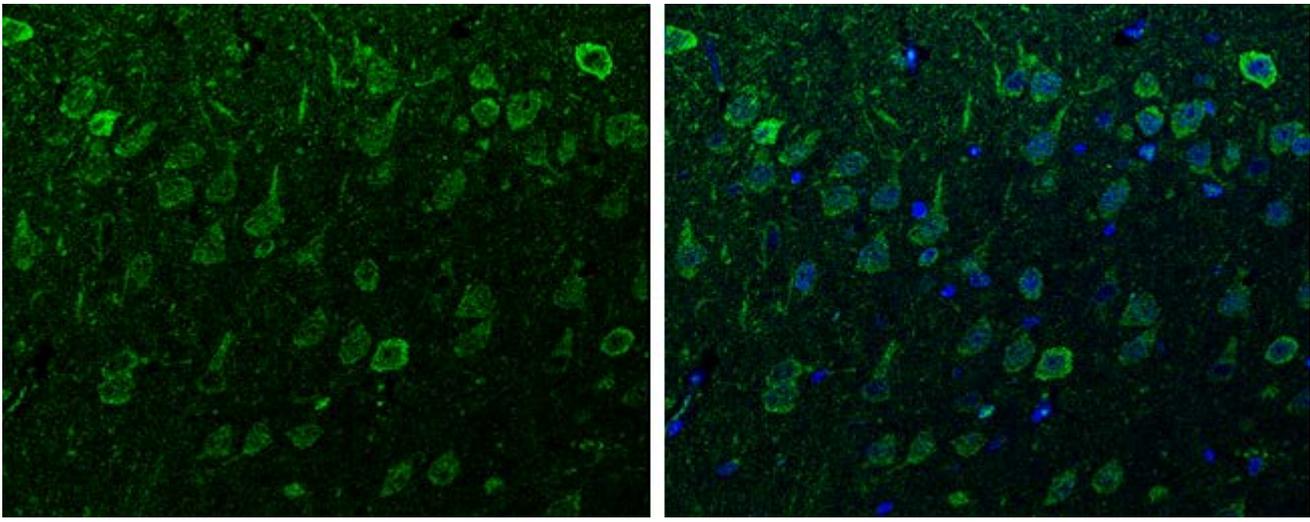
- GTX112799 IHC-P Image
- alpha Synuclein antibody detects alpha Synuclein protein at cytoplasm and nucleus in Rat brain by immunohistochemical analysis.
Sample: Paraffin-embedded Rat brain.
alpha Synuclein antibody (GTX112799) diluted at 1:500.



- GTX112799 IHC-Fr Image
- alpha Synuclein antibody detects alpha Synuclein protein expression by immunohistochemical analysis.
Sample: Frozen-sectioned adult mouse cerebellum.
Green: alpha Synuclein protein stained by alpha Synuclein antibody (GTX112799) diluted at 1:250.
Red: beta Tubulin 3/ TUJ1, stained by beta Tubulin 3/ TUJ1 antibody [GT11710] (GTX631836) diluted at 1:500.
Blue: Fluoroshield with DAPI (GTX30920).



- GTX112799 IHC-P Image
- Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using alpha Synuclein(GTX112799) antibody at 1:250 dilution.



- GTX112799 IHC-P Image
- alpha Synuclein antibody detects alpha Synuclein protein at cytoplasm and nucleus in rat brain by immunohistochemical analysis.
Sample: Paraffin-embedded rat brain.
Green: alpha Synuclein antibody (GTX112799) diluted at 1:200. The signal was developed using goat anti-rabbit IgG antibody (Dylight488) (GTX213110-04).
Blue: Nuclear staining with Hoechst 33342.