Product Datasheet

Alpha Synuclein (pSer129) Antibody (FITC) (orb612726)

Catalog Number	orb612726
Category	Antibodies
Description	Rabbit monoclonal antibody against Alpha Synuclein (Phospho-Ser129) conjugated to FITC
Target	Alpha Synuclein pSer129
Clonality	Recombinant
Species/Host	Rabbit
Isotype	IgG
Conjugation	FITC
Reactivity	Human, Mouse
Concentration	1 mg/ml
Buffer/Preservatives	640.91mM DMSO, 136.36 mM Ethanolamine, 126.89 mM chlorides, 9.09mM phosphates, 9.09mM NaHCO3
Purification	Affinity Purified
Immunogen	Human alpha synuclein AA 124-134: AYEMP-pS-EEGYQ-Cys
UniProt ID	P37840
Tested applications	ELISA, ICC, IHC, WB
Dilution range	WB (1:500)

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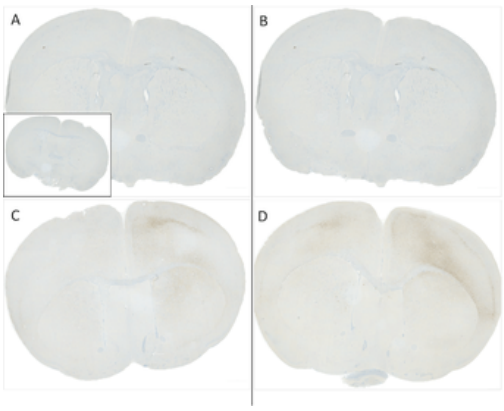
Application notes	A 1:500 dilution of SMC-600 was sufficient for detection of Alpha Synuclein pSer129 in 10 µg of Mouse Brain by ECL immunoblot analysis using Goat Anti-Rabbit IgG:HRP as the secondary antibody.
Specificity	Binds to phosphorylated serine 129 on alpha synuclein. Does not detect unphosphorylated serine 129 alpha synuclein
Antibody Type	Recombinant Antibody
Clone Number	J18
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	**6622**
NCBI	**NP_000336.1**
Expiration Date	12 months from date of receipt.



Immunohistochemistry analysis using Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody, Clone J18. Tissue: Brain. Species: Mouse. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody at 1:10000. Secondary Antibody: anti-rabbit HRP. C57/BL6 mice were injected with 5 ug sonicated mouse recombinant alpha synuclein PFFs at 8 weeks of age. Mice were unilaterally injected in the dorsal striatum (bregma AP + 0.2 mm, L +/1 2.0 mm, V - 3.0 mm) and sacrificed 30 days post-injection. (A) contralateral cortex. (B) ipsilateral cortex. (C) contralateral striatum. (D) ipsilateral striatum.

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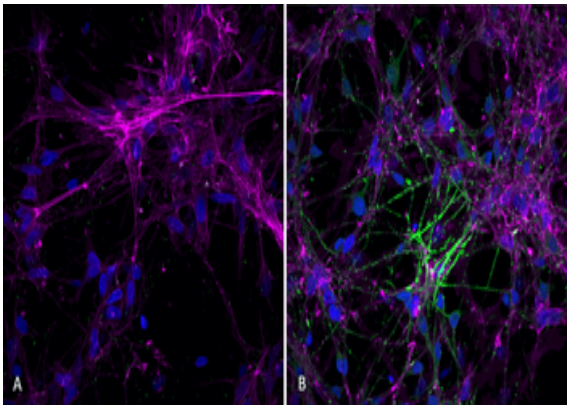
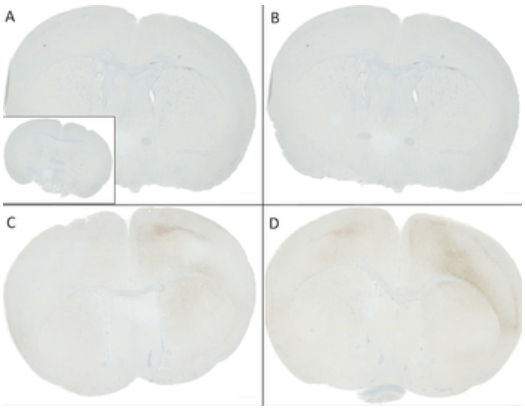
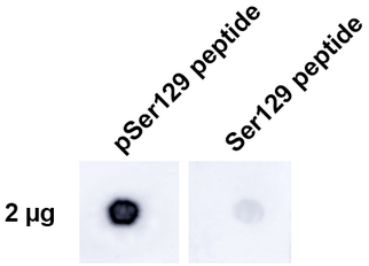


Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Alpha Synuclein (pSer129) Monoclonal Antibody, Clone J18. Tissue: iPSC-derived neurons. Species: Human. Primary Antibody: Rabbit Anti-Alpha Synuclein (pSer129) Monoclonal Antibody at 1:1000 for O/N at 4°C. Secondary Antibody: Anti-Rabbit: A488 at 1:1000 for 1 hour at RT. Magnification: 40X. Nuclear stain: Hoechst- 20 min, RT (blue). Actin stain: Phalloidin-647- 20 min, RT (magenta). 4K cells per well. A) negative control; no fibrils added to well. B) 7 days after addition of active recombinant human pre-formed fibrils (Type 1).



Immunohistochemistry analysis using Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody, Clone J18. Tissue: Brain. Species: Mouse. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody at 1:10000. Secondary Antibody: anti-rabbit HRP. C57/BL6 mice were injected with sonicated recombinant mouse alpha synuclein monomers or fibrils at 8 weeks of age. Mice were unilaterally injected in the dorsal striatum (bregma AP + 0.2 mm, L +/1 2.0 mm, V - 3.0 mm) and sacrificed 30 days post-injection. (A) 1.25 uL mouse alpha synuclein monomers. (B) 2.5 uL mouse alpha synuclein monomers. (C) 2.5 ug alpha synuclein PFFs. (D) 5 ug alpha synuclein PFFs. Inset: PBS (negative control).



Dot Blot analysis using Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody, Clone J18. Tissue: alpha synuclein peptide. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody at 1:500 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-rabbit IgG:HRP at 1:4000 for 1 hour at RT with shaking. Phospho peptide sequence: AYEMP-pS-EEGYQ. Non-phospho peptide sequence: AYEMPSEEGYQ. This sequence is the same for human, mouse, and rat.

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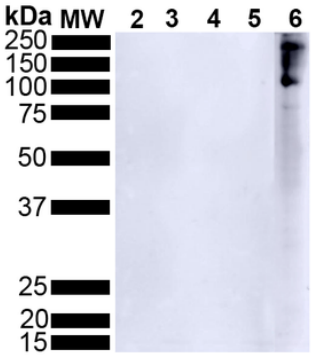
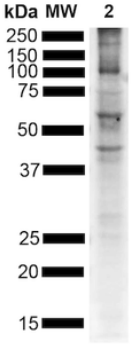
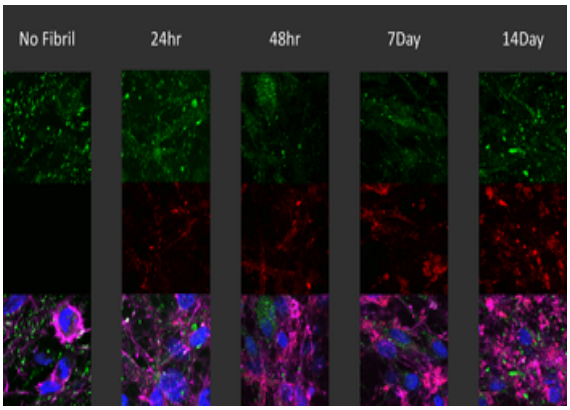


Western Blot analysis of Human Alpha Synuclein showing detection of Alpha Synuclein pSer129 protein using Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody, Clone J18. Lane 1: MW ladder. Lane 2: 0.5 ug human alpha synuclein monomer. Lane 3: 2 ug human alpha synuclein monomer. Lane 4: 0.5 ug human alpha synuclein PFFs. Lane 5: 2 ug human alpha synuclein PFFs. Lane 6: 15 ug human Parkinson's Disease brain lysate. Block: 5% BSA in TBST. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody at 1:500 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-rabbit IgG:HRP at 1:4000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT.



Western Blot analysis of Mouse Brain showing detection of Alpha Synuclein pSer129 protein using Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody, Clone J18. Lane 1: MW ladder. Lane 2: Mouse brain. Load: 15 ug. Block: 5% BSA in TBST. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody at 1:500 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-rabbit IgG:HRP at 1:4000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT.



Immunocytochemistry / Immunofluorescence analysis of human iPSC-derived neurons treated with 2.5µg ATTO 594 labeled type I alpha-synuclein pre-formed fibrils for up to 14 days. Cells seeded at 8k cells per well. Green: mouse anti-alpha synuclein (pSer129) monoclonal antibody 1:5000; Red: alpha-synuclein PFFs; Pink: actin; Blue: Hoechst / DNA.

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