

## Product Datasheet

### Alpha Synuclein Antibody: Biotin (orb413344)

|                            |                                                                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>         | Mouse monoclonal antibody against alpha Synuclein conjugated to Biotin                                                                                                                               |
| <b>Species/Host</b>        | Mouse                                                                                                                                                                                                |
| <b>Reactivity</b>          | Human, Mouse, Rat                                                                                                                                                                                    |
| <b>Conjugation</b>         | Biotin                                                                                                                                                                                               |
| <b>Tested Applications</b> | ELISA, ICC, IF, IHC, WB                                                                                                                                                                              |
| <b>Immunogen</b>           | Mouse alpha synuclein aggregate                                                                                                                                                                      |
| <b>Target</b>              | Alpha Synuclein                                                                                                                                                                                      |
| <b>Preservatives</b>       | 136.36mM Ethanolamine, and 9.55mM Sodium Bicarbonate in 95.45% PBS                                                                                                                                   |
| <b>Concentration</b>       | 1 mg/ml                                                                                                                                                                                              |
| <b>Storage</b>             | Conjugated antibodies should be stored according to the product label                                                                                                                                |
| <b>Note</b>                | For research use only                                                                                                                                                                                |
| <b>Application notes</b>   | A 1:1000 dilution of SMC-532 was sufficient for detection of Alpha Synuclein in 15 µg of human brain cell lysate by ECL immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody. |
| <b>Isotype</b>             | IgG1                                                                                                                                                                                                 |
| <b>Clonality</b>           | Monoclonal                                                                                                                                                                                           |
| <b>Clone Number</b>        | 3F8                                                                                                                                                                                                  |
| <b>Uniprot ID</b>          | <b>O55042</b>                                                                                                                                                                                        |
| <b>NCBI</b>                | <b>NP_001035916.1</b>                                                                                                                                                                                |
| <b>Entrez</b>              | <b>20617</b>                                                                                                                                                                                         |

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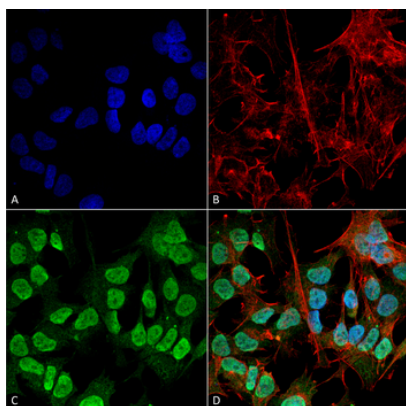
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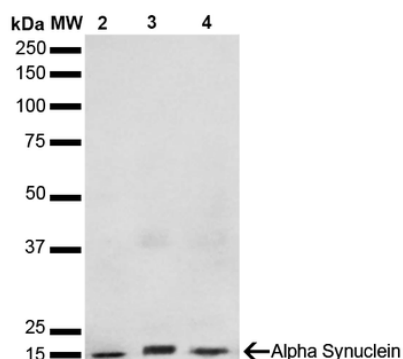
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**Dilution Range** WB (1:1000); DB (1:1000); IHC (1:200); ICC/IF (1:100); ELISA (1:1000)

**Expiration Date** 12 months from date of receipt.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Alpha Synuclein Monoclonal Antibody, Clone 3F8. Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Alpha Synuclein Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm: weak; Nucleus: Med. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Alpha Synuclein Antibody. (D) Composite.



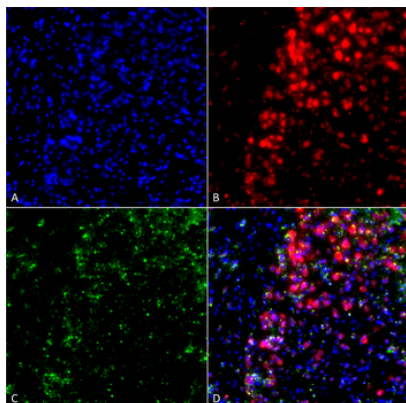
Western Blot analysis of Human, Mouse, Rat Brain showing detection of 14 kDa Alpha Synuclein protein using Mouse Anti-Alpha Synuclein Monoclonal Antibody, Clone 3F8. Lane 1: Molecular Weight Ladder (MW). Lane 2: Mouse Brain cell lysate. Lane 3: Rat brain cell lysate. Lane 4: Human brain cell lysate. Load: 15 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Alpha Synuclein Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse HRP: IgG at 1:3000 for 1 hour at RT. Color Development: ECL solution (Super Signal West Pico) for 5 min in RT. Predicted/Observed Size: 14 kDa.

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Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Alpha Synuclein Monoclonal Antibody, Clone 3F8. Tissue: Primary hippocampal neurons treated with active Alpha Synuclein Protein Aggregate at 4  $\mu$ g/ml to induce fibrils. Species: Rat. Fixation: 4% paraformaldehyde. Primary Antibody: Mouse Anti-Alpha Synuclein Monoclonal Antibody at 1:200 for 24 hours at 4°C. Secondary Antibody: Goat Anti-Mouse Alexa Fluor 488 at 1:700 for 1 hour at RT. Counterstain: Guinea Pig Anti-NeuN (red) neuronal marker (Donkey Anti-Guinea Pig Alexa Fluor 647 1:700); DAPI (blue) nuclear stain at 1:6000, 1:3000 for 60 min at RT, 5 min at RT. Magnification: 20X. (A) DAPI (blue) nuclear stain. (B) NeuN neuronal marker (red). (C) Alpha Synuclein Antibody. (D) Composite.

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