

Anti-Amyloid Oligomer, $\alpha\beta$ (A11) StressMarq

Catalog# SPC-506D

Size: 100 μ l

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This product is for *in vitro* research use only and is not intended for use in humans or animals

Product	Rabbit anti-Amyloid Oligomer, $\alpha\beta$ antibody; polyclonal
Clone	N/A
Immunogen	Synthetic molecular mimic of soluble oligomers.
Host and Subclass	Rabbit polyclonal
Cited Applications	ELISA, IF, IHC, IP, WB and Dot Blot
Specificity	Recognizes all types of amyloid oligomers. Appears to recognize a peptide backbone epitope that is common to amyloid oligomers, but is not found in native proteins, amyloidogenic monomer or mature amyloid fibrils.
Species cross-reactivity	Not species specific. Reacts with Eukaryotes, Rat, Mouse, Human
Format	Protein A Purified. In PBS, 50% glycerol and 0.09% sodium azide.
Concentration and working dilution	0.5mg/ml 0.1-10 μ g/mL (ELISA, dot blotting), 1:1000-1:10000 (IHC), 1:1000 (WB), 1:1000 (IP)
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

deposition of α -synuclein in the Lewy bodies of Parkinson's disease, and accumulation of polyglutamine-containing aggregates in Huntington's disease (2, 3).

Selected References

1. Glabe C.G. (2004) *Trends Biochem Sci.* 29(10): 542-547.
2. Kaye R., et al. (2004) *J Bio. Chem.* 279: 46363-46366.
3. Kaye R., et al. (2003) *Science.* 300(5618): 486-489.

Certificate of Analysis

A 1:1000 dilution of SPC-506 was sufficient for detection of amyloid oligomers in 10 μ g of mouse brain lysates by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Scientific Background

Amyloid monomeric proteins can sometimes oligomerize into destructive amyloid fibrils. Amyloidogenic conformations of non-disease related proteins can be created by partial protein misfolding or denaturation. Many degenerative diseases are known to be related to the accumulation of misfolded proteins as amyloid fibres (1, 2). These include the amyloid- β peptide plaques and tau neurofibrillary tangles in senile plaques of Alzheimer's symptomology, the

Material Safety Data Sheet

Anti-Amyloid Oligomer (A11) (Polyclonal Antibody) SPC-506

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Sodium Azide	26628-22-8	0.09

Physical Data

This product consists of Protein A purified material in PBS, 50% glycerol and sodium azide shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.