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Lieferung & Zahlungsart

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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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RECOMBINANT

Anti-Amyloid Beta 1-42 Oligomer Antibody

Powered by Bioz

StressMarq Biosciences INC.

Discovery through Partnership | Excellence through Quality

Rabbit Anti-Human Amyloid Beta 1-42 Oligomer Recombinant Monoclonal IgG
Catalog No. SMC-619

Product Name

Amyloid Beta 1-42 Oligomer Antibody

Description

Rabbit Anti-Human Amyloid Beta 1-42 Oligomer Recombinant Monoclonal IgG

Species Reactivity

Human

Applications

WB, ELISA

Antibody Dilution

WB, ELISA (1:1000 - 1:10,000); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Human

Immunogen

Amyloid beta 1-42 oligomers (StressMarq Catalog# SPR-488)

Concentration

0.5mg/mL

Conjugates

APC, ATTO 390, ATTO 488, ATTO 594, Biotin, FITC, HRP, PerCP, RPE, Unconjugated

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.09% sodium azide. *Storage buffer may change when conjugated

Storage Temperature

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Protein A purified

Clonality

Recombinant Monoclonal

Clone Number

1C1

Isotype

IgG

Specificity

Amyloid Beta 1-42 oligomers

Cite This Product

Rabbit Anti-Human Amyloid Beta 1-42 Oligomer Recombinant Monoclonal (StressMarq Biosciences, Victoria BC, Cat# SMC-619)

Certificate Of Analysis

A 1:10,000 dilution of SMC-619 was sufficient for detection of 1ug of AB 1-42 oligomers by western blot analysis with goat-anti-rabbit:HRP as the secondary and by self-sandwich ELISA analysis (capture at 1 ug/mL, detection at 0.2 ug/mL).

Biological Description

Alternative Names

Abeta Oligomers Antibody, APP Antibody

Research Areas

Alzheimer's Disease, Amyloid, Neurodegeneration, Neuroscience

Cellular Localization

Membrane (Secreted)

Gene ID

351 (APP)

Swiss Prot

P05067

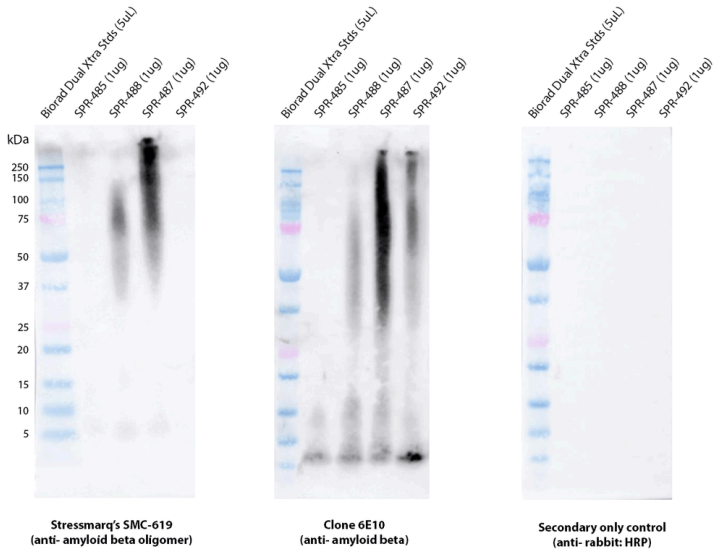
Scientific Background

Our amyloid beta oligomer antibody (clone 1C1) has been tested for specificity against synthetic AB 1-42 aggregates, with higher specificity to oligomers demonstrated. In the brain, amyloid beta peptide (Aβ) is generated by protease cleavage of amyloid precursor protein (APP), which aggregates into oligomers, protofibrils, fibrils and ultimately plaques in neurodegenerative diseases. The accumulation of Aβ plaques in the brain is considered a hallmark of Alzheimer's disease (AD), and most of the drugs tested for AD in the past 20 years have targeted amyloid beta accumulation (1). The immunogen used was our Amyloid Beta 1-42 (Aβ42) Oligomers are generated from Amyloid Beta Peptide 1-42 pre-treated with 1,1,1,3,3,3-Hexafluoro-2-propanol (HFIP) as previously published (2,3).

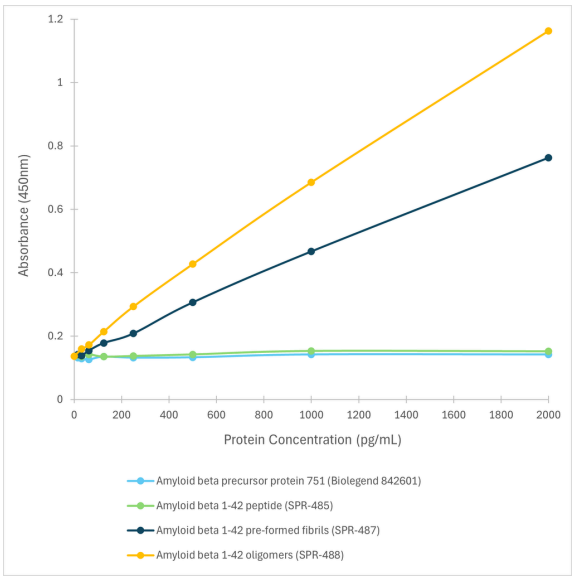
References

1. Panza et al. 2019. Nat Rev Neurol. 15:73-88 https://doi.org/10.1038/s41582-018-0116-6
2. Stine et al. 2003. JBC. 278(13):11612-22. doi: 10.1074/jbc.M210207200
3. Ahmed et al. 2010. Nature Structural & Molecular Biology. 17(5):561 doi: 10.1038/nsmb.1799

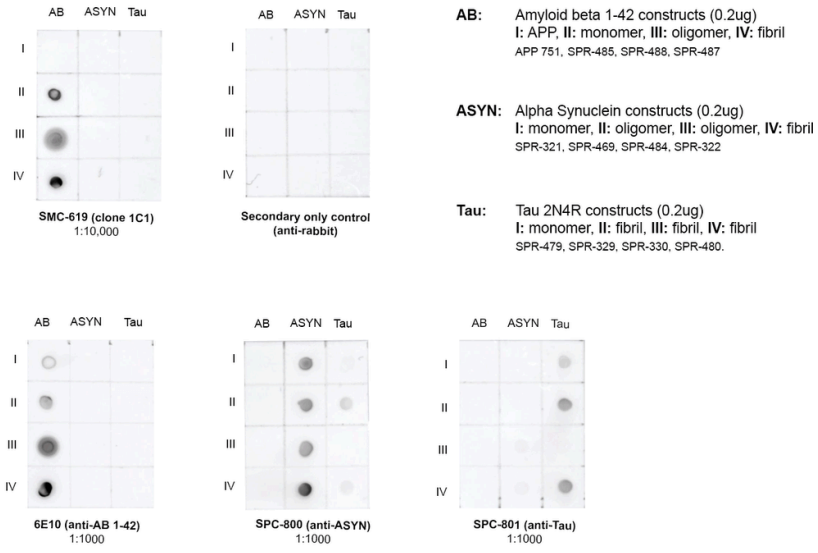
Product Images



Western blot analysis comparing detection of Stressmarq's Amyloid Beta 1-42 constructs (SPR-485 = amyloid beta 1-42 peptide; SPR-488 = amyloid beta 1-42 oligomers; SPR-487 = amyloid beta 1-42 pre-formed fibrils; SPR-492 = amyloid beta pyroglutamate 3-42 pre-formed fibrils). Block: 5% skim milk. Primary Antibodies: Rabbit Anti-Amyloid Beta 1-42 oligomer monoclonal antibody (SMC-619, clone 1C1) & Mouse Anti-Amyloid Beta 1-16 monoclonal antibody (Biolegend 803001, clone 6E10), at 1:10,000 & 1:1000, respectively, for 1/2 hour at RT. Secondary Antibodies: Goat anti-rabbit IgG:HRP or anti-mouse IgG:HRP at 1:4000 for 1/2 hour at RT. Color Development: Chemiluminescent for HRP (Moss) for 1 min in RT. Exposed 1 second.

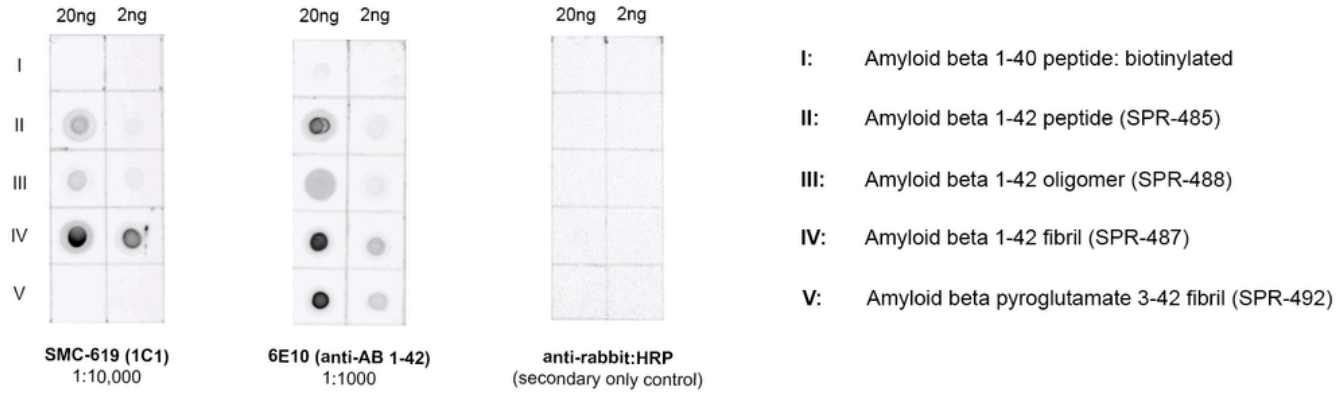


Sandwich ELISA analysis comparing detection of Amyloid Beta constructs. The range tested for each construct was 0 to 2000 pg/mL, and the standard curve was prepared using amyloid beta 1-42 oligomers (SPR-488). Within this range, no cross-reactivity with monomeric peptide & APP 751 was observed.



Dot blot analysis comparing detection of Stressmarq's amyloid beta 1-42 constructs, alpha synuclein wildtype constructs, and tau constructs. Of note is that SMC-619 does not bind APP 751 or other protein constructs such as alpha synuclein and tau. Block: 5% skim milk. Primary Antibodies: Anti-Amyloid Beta 1-42 oligomer monoclonal antibody (SMC-619, clone 1C1), Anti-Amyloid Beta 1-16 monoclonal antibody (Biolegend 803001, clone 6E10), Anti-Alpha Synuclein polyclonal antibody (SPC-800), and Anti-Tau

polyclonal antibody (SPC-801), all incubated for 1/2 hour at RT. Secondary Antibodies: Goat anti-rabbit IgG:HRP or anti-mouse IgG:HRP at 1:4000 for 1/2 hour at RT. Color Development: Chemiluminescent for HRP (Moss) for 1 min in RT. Exposed 1 second.



Dot blot analysis comparing detection of Stressmarq's amyloid beta constructs. Concentrations tested on each blot are 20 & 2ng, respectively. Block: 5% skim milk. Primary Antibodies: Rabbit Anti-Amyloid Beta 1-42 oligomer monoclonal antibody (SMC-619, clone 1C1) & Mouse Anti-Amyloid Beta 1-16 monoclonal antibody (Biolegend 803001, clone 6E10) at 1:10,000 & 1:1000, respectively, for 1/2 hour at RT. Secondary Antibodies: Goat anti-rabbit IgG:HRP or anti-mouse IgG:HRP at 1:4000 for 1/2 hour at RT. Color Development: Chemiluminescent for HRP (Moss) for 1 min in RT. Exposed 1 second.

Product Citations

Reviews

There are no reviews yet.