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## Datasheet for ABIN249343 **anti-Abeta 1-42 antibody**

1 Image

1 Publication

### Overview

Quantity:	100 µL
Target:	Abeta 1-42
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Abeta 1-42 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Dot Blot (DB), Immunolocalization (IL)

### Product Details

Immunogen:	synthetic peptide chosen from human Abeta (1-42) protein. Amino acid sequence: D-A-E-F-R-H-D-S-G-Y-E-V-H-H-Q-K-L-V-F-F-A-E-D-V-G-S-N-K-G-A-I-I-G-L-M-V-G-G-V-V-I-A
Cross-Reactivity (Details):	Not reactive in: no confirmed exceptions from predicted reactivity known in the moment
Predicted Reactivity:	bovine, chicken, dog, porcine, rabbit
Characteristics:	Expected / apparent Molecular Weight of the Antigen: 4.5 kDa
Purification:	serum

### Target Details

Target:	Abeta 1-42
Alternative Name:	Amyloid-beta 42 protein (Abeta (1-42)) ( <a href="#">Abeta 1-42 Products</a> )
Background:	Alzheimer's disease (AD) is the most prevalent neurodegenerative disease in the growing

## Target Details

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population of elderly people. A hallmark of AD is the accumulation of plaques in the brain of AD patients. The plaques predominantly consist of aggregates of amyloid-beta (Abeta), a peptide of 39-42 amino acids generated in vivo by specific, proteolytic cleavage of the amyloid precursor protein P05067

Molecular Weight: 4.5 kDa

## Application Details

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Application Notes: 1:1000 (DB), 1:3000 (ELISA), 1-2 µg/mL (IL)

Comment: the antibody can detect Abeta (1-42), Abeta (1-28) Abeta (1-20) and Abeta (1-17). This product exhibits a low reactivity to monomeric Abeta (1-42) as determined by SDS-PAGE and Western blotting.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: For reconstitution add 100 µL of sterile water.

Handling Advice: Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.  
Once reconstituted make aliquots to avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: store lyophilized/reconstituted at -20°C, once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

## Publications

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Product cited in: Silverstein, Ordanes, Wylie, Files, Milligan, Presley, Kavanagh: "Inducing Muscle Heat Shock Protein 70 Improves Insulin Sensitivity and Muscular Performance in Aged Mice." in: **The journals of gerontology. Series A, Biological sciences and medical sciences**, Vol. 70, Issue 7, pp. 800-8, (2015) ([PubMed](#)).

Hunter, OHagan, Kenyon, Dhanani, Prinsloo, Edkins: "Hsp90 binds directly to fibronectin (FN) and inhibition reduces the extracellular fibronectin matrix in breast cancer cells." in: **PLoS ONE**,

Vol. 9, Issue 1, pp. e86842, (2014) ([PubMed](#)).

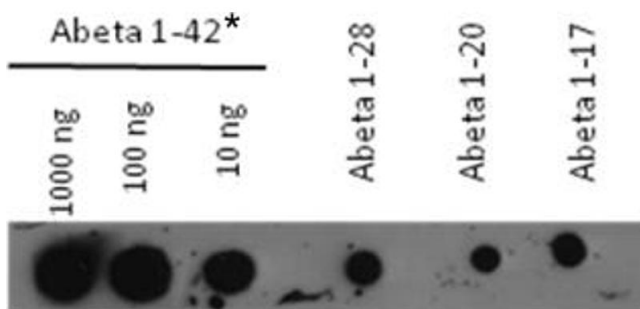
Ghemrawi, Pooya, Lorentz, Gauchotte, Arnold, Gueant, Battaglia-Hsu: "Decreased vitamin B12 availability induces ER stress through impaired SIRT1-deacetylation of HSF1." in: **Cell death & disease**, Vol. 4, pp. e553, (2013) ([PubMed](#)).

Sun, Prince, Manjarrez, Scroggins, Matts: "Characterization of the interaction of Aha1 with components of the Hsp90 chaperone machine and client proteins." in: **Biochimica et biophysica acta**, Vol. 1823, Issue 6, pp. 1092-101, (2012) ([PubMed](#)).

Modrow, Preusse-Prange, Meyer, Harder, Schwark, von Wurmb-Schwark: "Highly reliable quantification of proteins such as members of the HSP70 superfamily based on the grey scale index via immune detection stained bands on a Western blot." in: **Forensic science international**, Vol. 222, Issue 1-3, pp. 256-8, (2012) ([PubMed](#)).

## Images

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**Image 1.** beta(1-42) consists of both monomeric and partly aggregated mtrl