

# Agrisera

This product is for research use only (not for diagnostic or therapeutic use)

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Product no **AS08 328**

## Abeta (1-42) | Amyloid-beta peptide 1-42

### Product information

<b>Background</b>	Alzheimer's disease (AD) is the most prevalent neurodegenerative disease in the growing 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 <b>amyloid-beta (Abeta)</b> , a peptide of 39-42 amino acids generated in vivo by specific, proteolytic cleavage of the amyloid precursor protein <a href="#">P05067</a>
<b>Immunogen</b>	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
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	100 µl
<b>Reconstitution</b>	For reconstitution add 100 µl of sterile water.
<b>Storage</b>	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.
<b>Tested applications</b>	Dot Blot (Dot), ELISA (ELISA), Immunolocalization (IL), Western blot (WB)
<b>Related products</b>	<a href="#">Alzheimer</a>   available antibodies for Alzheimer's disease

### Application information

<b>Recommended dilution</b>	1 : 1000 (DB), 1 : 3000 (ELISA), 1-2 µg/ml (IL)
<b>Expected   apparent MW</b>	4.5 kDa
<b>Confirmed reactivity</b>	Human
<b>Predicted reactivity</b>	Bovine, Chicken, Dog, Porcine, Rabbit
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known.
<b>Additional information</b>	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. Immunolocalization: human tissue was paraffin-embedded and sectioned. De-waxed and rehydrated in an ethanol gradient. Antigens were retrieved in sodium citrate buffer (pH 6) at 95 °C for 1 h. The tissue sections were separately incubated for 1 h at RT with primary antibody and antibody binding was visualized with IgG Peroxidase Reagent Kit. For high resolution images, please visit the specific product page at <a href="http://www.agrisera.com">www.agrisera.com</a>
<b>Selected references</b>	<a href="#">Lindhagen-Persson et al. (2010)</a> . Amyloid- oligomer specificity mediated by the IgM isotype--implications for a specific protective mechanism exerted by endogenous auto-antibodies. PLoS One. 2010 Nov 10;5(11):e13928. doi: 10.1371/journal.pone.0013928.

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#### Dot blot experiment

- Membrane: Nitrocellulose
- Blocking buffer: 5% dry milk in PBS, 0.1% Tween 20

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- Antibody dilution: 1:1000
- Secondary antibody: anti-rabbit (HRP)
- Detection: Enhanced Chemoluminescence (pico) 30s

\*Abeta (1-42) consists of both monomeric and partly aggregated mtrl.