Datasheet for ABIN1742444

anti-Abeta 1-42 antibody (AA 37-42)

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Overview

Quantity:	50 µg
Target:	Abeta 1-42
Binding Specificity:	AA 37-42
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Abeta 1-42 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Synthetic peptide corresponding to aa 37-42 of Abeta peptide 42 coupled to key-hole limpet hemocyanin via an added N-terminal cysteine residue.
Specificity:	Specific for Abeta 42
Cross-Reactivity (Details):	weak cross-reactivity to Abeta 40 in westernblots that is not apparent in ELISA tests.
Purification:	Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization.

Target Details

Target:	Abeta 1-42
Alternative Name:	Abeta 42 (Abeta 1-42 Products)
Background:	Synonyms: Beta-App, ABPP

Application Details

Application Notes:	WB: 1 : 1000 (ECL detection) IP: not tested yet ICC: not tested yet IHC: 1 : 100 up to 1 : 500 IHC-P: 1 : 100 ELISA: yes, suitable only as capture antibody, ABIN1742439 is recommended detector antibody for sandwich-ELISA (protocol)
Comment:	WB: Detects purified Abeta 42. Complex samples like brain extracts still have to be tested. Nitrocellulose membrane is recommended for blotting.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 50 µL H2O to get a 1mg/ml solution of antibody in PBS. Then aliquot and store at -20 °C until use.
Buffer:	PBS
Handling Advice:	Affinity purified antibodies are less robust than antisera, since protease inhibitors are also removed during purification. Hence, storage at 4 °C for prolonged periods (i.e. several weeks), is not recommended.
Storage:	-20 °C
Storage Comment:	Unlabeled lyophilized antibodies are stable in this form without loss of quality at ambient temperatures for several weeks or even months. They can be stored at 4°C for several years. Lyophilized antibodies must not be stored in the freezer, they may be destroyed!

Publications

Product cited in:	Wang, Wu, Anand, Karthivashan, Phukan, Yang, Thinakaran, Westaway, Kar: "Significance of cytosolic cathepsin D in Alzheimer's disease pathology: Protective cellular effects of PLGA nanoparticles against β-amyloid-toxicity." in: **Neuropathology and applied neurobiology**, Vol. 46 , Issue 7, pp. 686-706, (2021) (PubMed). Hüttenrauch, Baches, Gerth, Bayer, Weggen, Wirths: "Neprilysin deficiency alters the neuropathological and behavioral phenotype in the 5XFAD mouse model of Alzheimer's

disease." in: **Journal of Alzheimer's disease : JAD**, Vol. 44, Issue 4, pp. 1291-302, (2015) (PubMed).

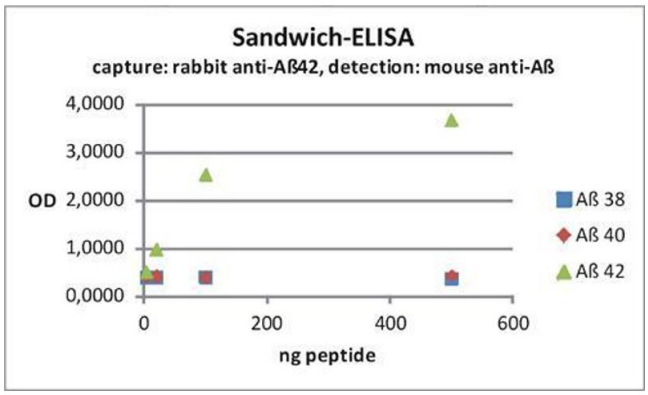
Guzmán, Bouter, Richard, Lannfelt, Ingelsson, Paetau, Verkkoniemi-Ahola, Wirths, Bayer: " Abundance of Aβ𝛘-x like immunoreactivity in transgenic 5XFAD, APP/PS1KI and 3xTG mice, sporadic and familial Alzheimer's disease." in: **Molecular neurodegeneration**, Vol. 9, pp. 13, (2014) (PubMed).

Reinert, Martens, Huettenrauch, Kolbow, Lannfelt, Ingelsson, Paetau, Verkkoniemi-Ahola, Bayer, Wirths: "Aβ38 in the brains of patients with sporadic and familial Alzheimer's disease and transgenic mouse models." in: **Journal of Alzheimer's disease : JAD**, Vol. 39, Issue 4, pp. 871-81, (2014) (PubMed).

Christensen, Huettenrauch, Mitkovski, Pradier, Wirths: "Axonal degeneration in an Alzheimer mouse model is PS1 gene dose dependent and linked to intraneuronal A? accumulation." in: **Frontiers in aging neuroscience**, Vol. 6, pp. 139, (2014) (PubMed).

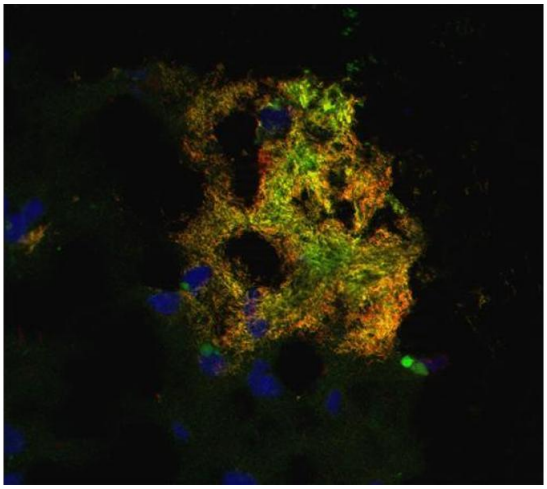
There are more publications referencing this product on: Product page

Images



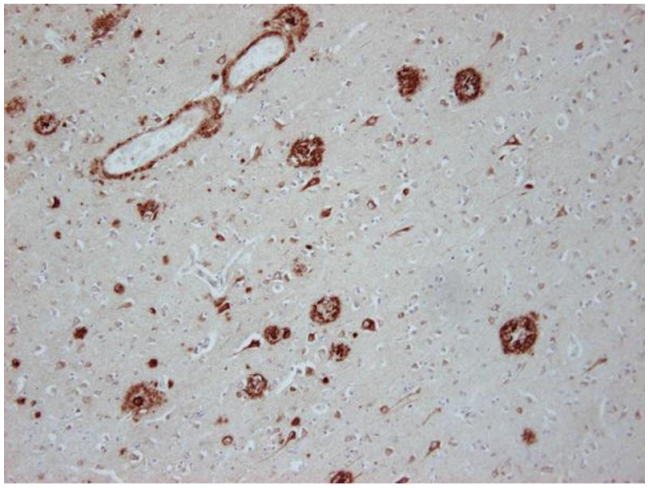
ELISA

Image 1.



Immunohistochemistry

Image 2. Indirect immunostaining of an acetone fixed cryo-section from an Alzheimer´s disease patient with anti Abeta 42 (dilution 1 : 100; red) and mouse anti Abeta-pE3 (cat. no. 218 011, dilution 1 : 200; green). Nuclei have been visualized by DAPI staining.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunostaining of paraffin embedded brain section from an Alzheimer's patient (dilution 1 : 100). Immunoreactivity in amyloid plaques was revealed using diaminobenzidine as chromagen. Nuclei were counterstained with haematoxylin (blue).

Please check the product details page for more images. Overall 4 images are available for ABIN1742444.