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Datasheet for ABIN459388
anti-beta Amyloid antibody

2 Images

Overview

Quantity:	50 µg
Target:	beta Amyloid (Abeta)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This beta Amyloid antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	partly aggregated, recombinant peptide corresponding to the human Abeta (1-40/42). 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. The epitope is 3-8.
Clone:	OMAB
Isotype:	IgM
Cross-Reactivity (Details):	Not reactive in: no confirmed exceptions from predicted reactivity known in the moment
Predicted Reactivity:	rat
Characteristics:	Expected / apparent Molecular Weight of the Antigen: 4.5 kDa OMAB antibody is a versatile tool within research of Alzheimer's disease. A sandwich ELISA illustrates its potential regarding its high selectivity towards Aβ oligomers. OMAB antibody has been purified by ion-exchange chromatography.
Purification:	affinity purified

Target Details

Target:	beta Amyloid (Abeta)
Alternative Name:	Amyloid beta oligomer-specific (Abeta Products)
Background:	Soluble oligomeric assemblies of the Amyloid- β peptide are today anticipated to be the direct cause regarding the Alzheimer pathology. As a consequence, oligomeric A β -assemblies constitute a very interesting therapeutic target. Identification of A β -oligomers is however, technically challenging due to there labile nature and low abundance. Abeta oligomer-specific OMAB antibody is based on the IgM isotype and represents a new concept of A β -oligomer binders using a combination of high avidity and very low monovalent affinity. This combination creates a selectivity of the antibody towards the oligomeric fraction and minimizes reactivity towards monomeric species.
Molecular Weight:	4.5 kDa
Pathways:	Inflammasome

Application Details

Application Notes:	coating antibody at 2 μ g/mL (ELISA), 1: 500 (IHC)
Comment:	OMAB antibody is a versatile tool within research of Alzheimer's disease. A sandwich ELISA illustrates its potential regarding its high selectivity towards A β oligomers.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 100 μ L of sterile water.
Buffer:	PBS without any additives as carrier proteins or sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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.
Storage:	4 $^{\circ}$ C
Storage Comment:	store lyophilized/reconstituted at 4 $^{\circ}$ C. 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.

Images

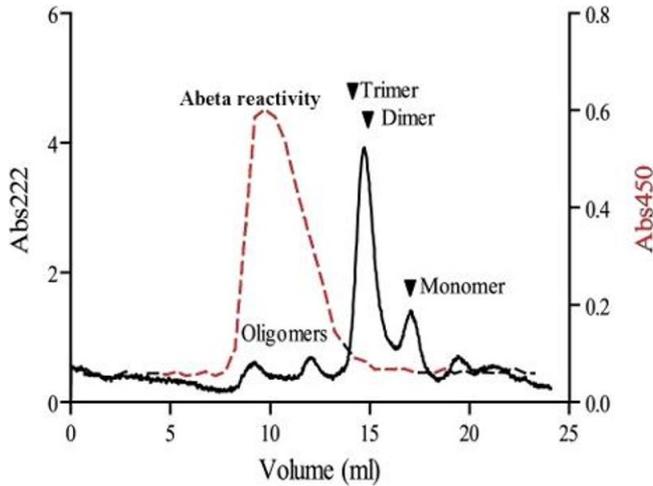


Image 1. Abeta oligomer-specific antibody was adsorbed to Nunc-Immuno MaxiSorp plates (Nunc, Roskilde, Denmark) at 2 ug/ml in PBS. 1 ml of a 10 uM Aβ(1-42) sample containing a small fraction of Aβ-oligomers was separated using a superdex G75 (10/30) column. Aβ-fractions collected from the SEC were allowed to bind to OMAB plates for 20 minutes at 0°C. All fractions were analyzed and bound Aβ was detected using a polyclonal rabbit anti-Aβ antibody (ABIN249343) at a 1:1000 dilution followed by an anti-rabbit HRP-conjugated secondary antibody at a 1:5000 dilution (GE healthcare). ECBlue (Medicago, Uppsala, Sweden) was used as a substrate for HRP and the signal was detected by measuring the absorbance at 450 nm. Blocking solution and antibody-dilutions were made with 5% Non-fat dry milk in PBST and all washes were performed with PBS containing 0.1% Tween-20 (PBST).

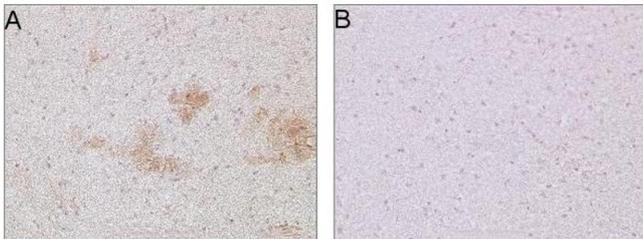


Image 2. 10 μm of coronal sections from fresh-frozen transgenic mouse brain mutant (A) and wild type (B). Post-fixation in 4% formaldehyde solution, 5 min. OMAB antibody diluted 1:500, incubation at 4°C ON. Mouse on mouse HRP-Polymer kit according to company instructions. Biocare Medical: BC-MM510 (Histolab) DAB substrate kit for peroxidase. Vector Laboratories: SK-4100 (Immunkemi) Counterstained with Mayers HTX.