

Datasheet for ABIN459388  
**anti-beta Amyloid antibody**[Go to Product page](#)

## 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 ( <a href="#">Abeta Products</a> )
Background:	Soluble oligomeric assemblies of the Amyloid- $\beta$ peptide are today anticipated to be the direct cause regarding the Alzheimer pathology. As a consequence, oligomeric A $\beta$ -assemblies constitute a very interesting therapeutic target. Identification of A $\beta$ -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 $\beta$ -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:	<a href="#">Inflammasome</a>

## Application Details

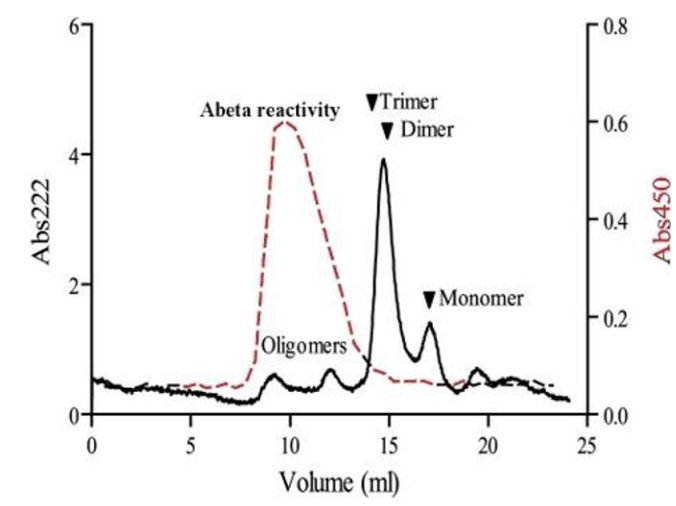
Application Notes:	coating antibody at 2 $\mu$ g/mL (ELISA), 1: 500 (IHC)
Comment:	OMAB antibody is a versatile tool within research of Alzheimer's disease. A sandwich ELISA illustrates its potential regarding its high selectivity towards A $\beta$ oligomers.
Restrictions:	For Research Use only

## Handling

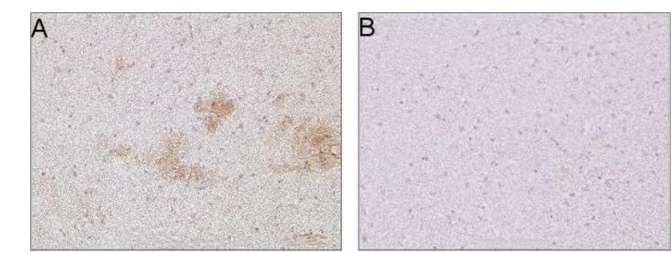
Format:	Lyophilized
Reconstitution:	For reconstitution add 100 $\mu$ L of sterile water.
Buffer:	PBS without any additives as carrier proteins or sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled 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 °C
Storage Comment:	store lyophilized/reconstituted at 4°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 A $\beta$ (1-42) sample containing a small fraction of A $\beta$ -oligomers was separated using a superdex G75 (10/30) column. A $\beta$ -fractions collected from the SEC were allowed to bind to OMAB plates for 20 minutes at 0°C. All fractions were analyzed and bound A $\beta$  was detected using a polyclonal rabbit anti-A $\beta$  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  $\mu$ m 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.