

Product no **AS10 932B****Anti-Amyloid beta oligomer-specific monoclonal antibody (OMAB), Biotinylated****Product information**

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| Immunogen | Partly aggregated, recombinant peptide corresponding to the human Abeta (1-40). 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. |
| Host | Mouse |
| Clonality | Monoclonal |
| Subclass/isotype | IgM |
| Purity | Affinity purified in PBS pH 7.4. |
| Format | Lyophilized |
| Quantity | 50 µg |
| Reconstitution | For reconstitution add 100 µl of sterile water |
| Storage | Store lyophilized/reconstituted at 4 °C. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube. |
| Additional information | <p>OMAB antibody has been purified by ion-exchange chromatography and is supplied in PBS without any additives as carrier proteins or sodium azide.</p> <p>Binding of OMAB antibody and Abeta oligomers at RT takes about 15 min.</p> <p>Fibrils are inaccessible for OMAB antibodies therefore if a discrimination between fibrils and oligomers is to be achieved, dot blot can be used. Start with antigen concentration of 500 ng/dot followed by 2X dilution steps. Blocking: non-fat milk and washes with 0.3 % Tween 20 in TBS pH 7.4.</p> |

Application information

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| Recommended dilution | Coating antibody at 2 µg/ml (ELISA), 1 : 500 (IHC) |
| Expected apparent MW | 4.5 kDa |
| Confirmed reactivity | Human Abeta oligomers only |
| Predicted reactivity | Rat |
| Not reactive in | No confirmed exceptions from predicted reactivity are currently known |
| Additional information | 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 |
| Selected references | <p>Richman et al. (2013). In Vitro and Mechanistic Studies of an Anti-Amyloidogenic Self-Assembled Cyclic D,L-#-Peptide Architecture. J. Americal Chemical Societ, Jan 19.</p> <p>Lindhagen-Persson et al. (2010). Amyloid- Oligomer Specificity Mediated by the IgM Isotype – Implications for a Specific Protective Mechanism Exerted by Endogenous Auto-Antibodies. PLoS ONE.</p> |