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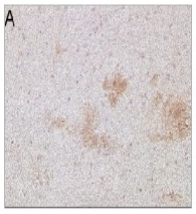
Product Datasheet

Amyloid beta oligomer-specific monoclonal antibody (OMAB)

GRP12729



Species/Host	Mouse
Reactivity	Human
Predicted Reactivity	Rat
Tested Applications	ELISA, IHC
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. Molecular weight of immunogen is 4.5 kDa.
Form/Appearance	Lyophilized
Storage	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.
Note	For research use only.
Isotype	IgM
Clonality	Monoclonal
Purity	Affinity purified
MW	4.5 kDa
Dilution Range	Coating antibody at 2 µg/ml (ELISA), 1 : 500 (IHC)
Application Notes	Additional Information: OMAB antibody is a versatile tool within research of Alzheimer’s disease. A sandwhich ELISA illustrates its potential regarding its high selectivity towards Aβ oligomers. OMAB antibody has been purified by by ion-exchange chromatography and is supplied in PBS without any additives as carrier proteins or sodium azide.Binding of OMAB antibody and Abeta oligomers at RT takes about 15 min.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. 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 Aβ-assemblies constitute a very interesting therapeutic target. Identification of Aβ-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 Aβ-oligomer binders using a combination of high avidity and very low monovalent affinity. This combination creates a selectivity of the antibody towards the oligomeric