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Product no AS13 2715

Anti-mAB-O | Mouse anti-human Abeta protein (3-10) region, oligomer-specific (clone 3E5,F8)

Product information

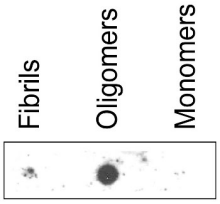
Immunogen	Synthetic peptide chosen from human Abeta (1-42) protein.
Host	Mouse
Clonality	Monoclonal
Subclass/isotype	IgG1, kappa light chain (clone number 3E5, F8)
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl of sterile water
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. 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.

Application information

Recommended dilution	10 µg/ml (IL), 1-2 µg/ml (Dot), 1 µg/ml (ELISA capture)
Expected | apparent MW	4.5 kDa
Confirmed reactivity	Human
Predicted reactivity	Mouse, Bovine, Chicken, Dog, Porcine, Rabbit
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	**Immunolocalization:** human tissue was paraffin-embedded and sectioned. De-waxed and rehydrated in an ethanol gradient. Antigens were retrieved in sodium citrate buffer (pH 6) at 95°C for 1 h. The tissue sections were separately incubated for 1 h at RT with primary antibody and antibody binding was visualized with IgG Preoxidase Reagent Kit. This Monoclonal IgG1, kappa light chain, (clone number 3E5.F8) is specific for human Amyloid-Beta oligomers.
Selected references	Brännström et al. (2014). A Generic Method for Design of Oligomer-Specific Antibodies. PLoS ONE. DOI: 10.1371/journal.pone.0090857.

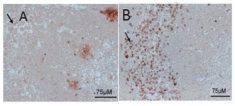
Application examples

Dot blot



Dot blot reaction of the binding capacity of mAB-O to fibrils, monomers and oligomers. Equal amounts of each sample were spotted on a nitrocellulose membrane and then dried. The membrane was blocked with 5% non-fat milk before incubated for 1 h with anti-mAB-O (25nM) and then with secondary antibody, anti-mouse HRP-conjugated (1:1500). The membrane was washed with PBS containing 0.25% Tween-20 before detection using ECL prime (GE Healthcare).

Immunolocalization



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IHC used to illustrate the lack of binding of mAB-O to plaques. Tissue sections from the human AD hippocampus were de-waxed and rehydrated in ethanol and then incubated with AS08 357 (A) and mAB-O(B) at RT for 1h. The immunoreactivity was detected with the anti-mouse Peroxidase Reagent Kit (ImmPRESS, Vector Laboratories, Inc.) and then developed using the ImmPACT AEC Peroxidase Substrate kit (Vector Laboratories, Inc.).