

Anti-Amyloid beta peptide (A-beta 40/42) Antibody (Biotin)



Product Details

Available Variants	50 µg (SKU:M-1742-50-B)
Conjugate	Unconjugated
Clone	MOAB-2
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer, pH 7.4; contains no preservative.
Production Notes	Antibody was purified from cell culture supernatant by Protein G chromatography, biotinylated and buffer-exchanged into PBS, pH 7.4 buffer
Applications	ELISA, ICC, IHC, IP, WB
Dilution Ranges	WB: 1:2000-1:5000 IHC: 1:500-1:2000 ICC: 1:100-1:500 IP: 1:200-1:1000 ELISA: 1:50-1:1000
Species Reactivity	Human, Rat
Immunogen	Recombinant human amyloid beta protein 42 (Aβ42): DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA
Specificity	MOAB-2 detects preparations enriched in U-, O-, F-Aβ42, and U-Aβ40 by dot-blot, and is thus a pan-specific Aβ antibody. However, MOAB-2 is selective for the more neurotoxic Aβ42 compared to Aβ40. Indeed, MOAB-2 demonstrated a titration against antigen concentration, and detects Aβ40 at 2.5 pmol, but U-, O- and F-Aβ42 at antigen concentrations as low as ~ 0.1 pmol (Youmans. KL et al., 2012; PMID: 22423893). MOAB-2 does not detect APP (Amyloid Precursor Protein). Human, rat, other species not yet tested. By Dot Blot, MOAB-2

detected rat A β 40 and human A β 40, albeit with less affinity than for A β 42 (Youmans KL et al., 2012).

Storage

Spin vial briefly before opening. Reconstitute in 50 μ L sterile-filtered, ultrapure water to give a concentration of 1 mg/mL. Centrifuge to remove any insoluble material. Final buffer is PBS, pH 7.4 without preservative. After reconstitution keep aliquots at -20°C to -70°C for a higher stability. At 2-8°C keep up to one week; use sterile methods and pipettes. Highly purified glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles. Keep tightly closed when not in use and protected from light.

UniProt ID

P05067

Country of Origin

United States

Shipping

25°C (ambient)

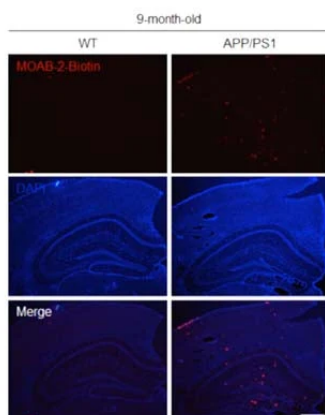
Expiration

12 months after date of receipt (unopened vial).

Usage Statement

For research use only.

Product Images



Immunohistochemical detection of amyloid plaques in the brain of 9 months old WT and APP/PS1 mice. Brain tissues were fixed with 4% paraformaldehyde and dehydrated in 30% sucrose solution. 30 μ m frozen sections were prepared and blocked in 5% Normal horse serum at room temperature for 1h. Then, sections were incubated with biotinylated MOAB-2 antibody (1:1000, red), overnight at 4°C. MOAB-2 binding was visualized with a streptavidin-Cy3 conjugate (1:1000, 1h). Cell nuclei were counterstained with DAPI dye. Figure courtesy of Dr C.S. Ruan, University of South Australia.

Product Page URL: www.antibodiesinc.com/products/anti-amyloid-beta-peptide-a-beta-40-42-antibody-biotin-m-1742-50-b



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