

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



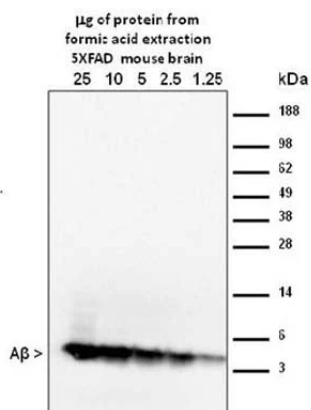
Product Details

Available Variants	100 µg (SKU:M-1586-100)
Conjugate	Unconjugated
Clone	MOAB-2
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Production Notes	This product is a Protein A purified mouse IgG2b in 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, 0.01% sodium azide, pH 7.2.
Applications	ELISA, Flow, ICC, IHC, IP, WB
Dilution Ranges	WB: 1:2000-1:5000 IHC: 1:50-1:1000 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}. MOAB-2 does not detect APP (Amyloid precursor protein). Human, rat, other species not yet tested. By Dot blot, MOAB-2 detected rat Aβ40 and human Aβ40, albeit with less affinity than for Aβ42. {Youmans. KL et al 2012}.
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. Final buffer is 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, 0.01% sodium azide, 0.1%

trehalose, pH 7.2. After reconstitution keep aliquots at -20°C to -70°C for a higher stability. At 2-8°C keep up to one week, insulated, protected from light; 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

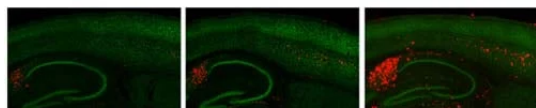


Sample combined cortex and hippocampus from 12 month old 5xFAD mice. 1.25-25 mg of FA extraction were analyzed using the standard Western blot procedure as described in Youmans, Molecular Neurodegeneration, 2012. MOAB-2 was used at a concentration of 1 µg/mL.

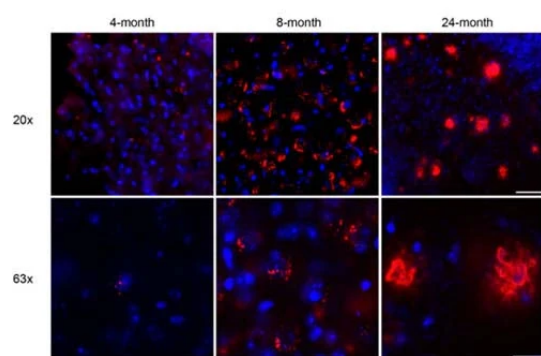
Extraction protocol: Modified 3-step sequential extraction as described in Youmans et al, J Neurosci Methods, 2011. The modification involved using less volume of formic acid (FA) in step 3 to give a more concentrated extraction. Therefore, 70% FA was added at to a concentration of 600 mg/mL rather than 150 mg/mL as described in Youmans et al. The final protein concentration of the neutralized formic acid extraction was 0.9 mg/mL

Youmans, KL et al (2011) J. Neuroscience Methods 196(1):51-59. [PMID: 21219931](#).

Youmans, KL et al (2012) Mol. Neurodegener. [PMID: 22423893](#).



IHC staining of MOAB-2 on 2, 4 and 6 month old 5XFAD mouse hippocampal sections showing increasing Aβ staining with MOAB-2 (Red); NeuN staining (Green). Photo courtesy of Dr. Mary Jo LaDu and Dr. Leon Tai from the University of Illinois Chicago, Chicago, IL.



Immunofluorescent detection of A β in coronal sections 4-month, 8-month and 24-month old 3xTg mice stained with M-1586-100. Staining shows intraneuronal A β increased from 4- to 8-months and decreased by 24-months while extracellular A β increased from 8- to 24months (top=20x, scale bar 50um; bottom = 63x, scale bar 20um). Figure courtesy of Youmans et al (2012).

Product Page URL: www.antibodiesinc.com/products/anti-amyloid-beta-peptide-a-beta-40-42-antibody-m-1586-100



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