

Mouse Amyloid Beta Peptide 42 Monoclonal Antibody

mAb anti-Amyloid Beta Peptide 42

CATALOG # AAA14627	HOST Mouse	REACTIVITY Human and other primates; mouse, rat	APPLICATIONS ELISA, Western Blot, Dot Blot
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PRODUCT SYNONYMS

Amyloid Beta Peptide 42; Monoclonal Antibody; mAb anti-Amyloid Beta Peptide 42; Beta amyloid peptide 42; Mouse monoclonal antibody to C-terminal of amyloid beta peptide 42 (Abeta42); anti-Amyloid Beta Peptide 42 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human and other primates; mouse, rat
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	CA9 10C11
Specificity	This antibody recognizes the C-terminal sequence (MVGGVVIA) of A β 42 and full length A β 42.
Purity/Purification	Protein G affinity purified
Form/Format	Lyophilized from a solution in 0.01M PBS, pH 7.2
Applicable Applications for anti-Amyloid Beta Peptide 42 antibody	ELISA (Sandwich ELISA), WB (Western Blot), DB (Dot Blot)
Application Notes	Sandwich ELISA: In combination with anti-amyloid peptide N-terminus capture antibody (mAb clone NT 5B8, Cat. No.:), the antibody can detect Aβ42 in sandwich ELISA assay. Western blot: The figure below is the result of using 2ug/mL anti- Aβ42 clone CA9 10C11 to detect Aβ42 on Western blot following Tris-Tricine separation gel electrophoresis. The antibody showed no cross-reactivity with Aβ 40.
Target Protein	C-terminus of amyloid beta peptide 42
Immunogen	KLH conjugated to a short peptide (MVGGVVIA) with amino acid sequence corresponding to the C-terminus of A β 42
Fusion Myeloma	Sp2/0-Ag14
Reconstitution	Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.
Product Type	Primary antibody, detection antibody in matched antibody pair
Research Area	Aging and neurodegenerative diseases
Cross-Reactivity	The antibody does not cross react with amyloid beta peptide 40 in dot blotting and ELISA. Cross-reactivity to amyloid beta peptide 43 is less than 1% in ELISA.
Preparation and Storage	Store at -20°C.



DB (Dot Blot)

Dot Blot: The figure below is the result of using 1ug/mL anti- Aβ42 clone CA9 10C11 to detect 10ng/dot Aβ42 or Aβ40. The antibody showed no cross-reactivity with Aβ40.



WB (Western Blot)

Sandwich ELISA: In combination with anti-amyloid peptide N-terminus capture antibody (mAb clone NT 5B8, Cat. No.: please inquire), the antibody can detect Aβ42 in sandwich ELISA assayWestern Blot: The figure below is the result of using 2ug/mL anti- Aβ42 clone CA9 10C11 to detect Aβ42 on Western blot following Tris-Tricine separation gel electrophoresis. The antibody showed no cross-reactivity with Aβ40.Lane 1 & 2 : Aβ40 Lane 3&4: Aβ42

ADDITIONAL INFORMATION

Related Product Information for anti- Amyloid Beta Peptide 42 antibody	Description:Description: Mouse monoclonal antibody to C-terminus of amyloid beta peptide 42 (Aβ42). BackgroundAmyloid beta peptide 42 (Aβ42) is best known for its role in the formation of senile plaques in the brain of patients with Alzheimer's disease. Aβ42 and Aβ40 are the two major amyloid peptides that are produced after cleavage of amyloid precursor protein by secretases. Aβ42 (42 amino acids) is very fibrillogenic. The beta pleated structure of Aβ42 constitutes the initial and key component of the insoluble amyloid fibril in senile plaque. It is widely accepted that Aβ42 contributes to the pathogenesis of Alzheimer's. One proposition is that the deposition of amyloid fibril onto the brain tissues results in Alzheimer's disease. Another is that the neurotoxicity of Aβ42 oligomer is the cause of the disease.
Product Categories/Family for anti- Amyloid Beta Peptide 42 antibody	Primary antibody; Monoclonal Antibodies to Neurological Disorder Proteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.