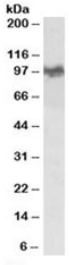
Abeta Antibody / Rodent Amyloid Beta Antibody (R33372)

Catalog No.	Formulation	Size
R33372-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	11820
Applications	Western blot: 0.03-0.1ug/ml ELISA (peptide) LOD: 1:64000
Limitations	This Abeta Antibody / Rodent Amyloid Beta Antibody is available for research use only.



Abeta Antibody in Mouse Brain Lysate WB. Western blot testing of mouse brain lysate with Abeta Antibody at 0.03 ug/ml detects a predominant band at approximately 100-110 kDa. The observed molecular weight falls within the expected 79-120 kDa range for glycosylated amyloid precursor protein species containing the Abeta region. The relatively discrete signal demonstrates recognition by the Rodent Amyloid Beta Antibody in mouse brain lysate.

Description

Abeta Antibody reagents are used to investigate amyloid beta sequences derived from amyloid precursor protein (APP), a type I transmembrane protein that undergoes extensive proteolytic processing. In the amyloidogenic pathway, sequential cleavage of APP by beta- and gamma-secretases generates amyloid beta peptides of varying lengths. These peptides are widely studied in neuroscience because their production, aggregation, and clearance are closely associated with mechanisms of neurodegeneration.

Amyloid beta peptides can self-associate into soluble oligomers, protofibrils, fibrils, and larger extracellular deposits. Amyloid beta 40 and amyloid beta 42 are among the best characterized forms, with amyloid beta 42 exhibiting a greater tendency toward aggregation. Beta amyloid accumulation is a defining feature of Alzheimer disease pathology, while soluble and oligomeric species are investigated for their potential effects on neuronal signaling, synaptic function, membrane integrity, and cellular homeostasis.

Mouse and rat models are extensively used to investigate APP processing and amyloid-associated biology. Although APP is highly conserved among mammals, the endogenous rodent amyloid beta sequence differs from the corresponding human sequence at several amino acid positions. These differences can influence antibody recognition as well as peptide aggregation and other biochemical properties. A Rodent Amyloid Beta Antibody can therefore provide useful specificity when studying endogenous APP and amyloid beta-associated species in mouse and rat experimental systems.

Distinguishing endogenous rodent amyloid beta from human amyloid beta can also be important in models incorporating human APP sequences. Researchers may investigate endogenous APP alongside introduced or transgenic human APP, making the sequence recognized by an antibody an important consideration when interpreting experimental results. Antibodies directed against rodent-specific amyloid beta sequences can support studies of native APP expression, processing, and amyloid biology without assuming equivalent recognition of the corresponding human sequence.

An Abeta Antibody generated against the DAEFGHDSGFEVRHQK sequence provides a polyclonal reagent directed against the rodent amyloid beta region. The antibody recognizes mouse and rat samples and is suited to research examining endogenous rodent APP and amyloid beta-associated biology. NSJ Bioreagents offers this antibody for studies of amyloid processing, neurodegeneration, and related neuroscience research.

For a monoclonal targeting the same protein family and amyloid-associated region, see our Amyloid Beta Antibody APP/3345 / Beta Amyloid Antibody page.

Application Notes

Optimal dilution of the Abeta Antibody / Rodent Amyloid Beta Antibody should be determined by the researcher.

Immunogen

Amino acids DAEFGHDSGFEVRHQK were used as the immunogen for this Abeta antibody.

Storage

Aliquot and store the Abeta antibody at -20oC.

Alternate Names

Abeta antibody, Amyloid beta antibody, Rodent amyloid beta antibody, Beta amyloid antibody, APP antibody, Amyloid beta precursor protein antibody, Amyloid beta A4 protein antibody, PreA4 antibody

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