Anti-Human AbetaN3 (pE) Beta Amyloid Monoclonal Antibody

CL2801

DESCRIPTION:
Cedarlane’s anti-AbetaN3 (pE) beta amyloid monoclonal antibody specifically binds the N-terminal region (a.a. residues 3-8) of Amyloid Beta peptide. AβpE3 (N-terminal truncated Aβ starting with pyroglutamate) represents a dominant fraction of Aβ peptides in senile plaques of Alzheimer’s disease brains. AβpE3 has higher aggregation propensity and shows increased toxicity compared to full-length Aβ. Intraneuronal accumulation of AβpE3 peptides induces severe neuron loss and an associated neurological phenotype. In APP/PS1KI mice a continuous increase in AβpE3 plaque load with increasing age has been reported. It has been suggested that the peptides starting with position 1 of Aβ are N-truncated as disease progresses and that AβpE3 positive plaques are resistant to degradation likely due to their high stability and propensity to aggregate (1-5).

PRESENTATION:
50 µl of concentrated hybridoma culture media. Ig fraction from hybridoma culture medium concentrated by ultrafiltration with molecular weight cut off of 100,000 Da to 1.25 mg/ml. For maximum recovery of contents, spin down tube before use.

STORAGE/STABILITY:
Store at -20°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles. Do not store in frost-free freezers.

APPLICATION:
This antibody is suitable for use in ELISA and Immunohistochemistry. Immunohistochemistry: Tissue Sections: (alcohol-fixed, paraffin embedded, frozen). Recommended antibody dilution - 1:100 - 1:500. Tissue pretreatment with citrate buffer pH 6.0 (microwave boiling) followed by 3-min incubation with 88% formic acid at RT. ELISA: 1:1000 – 1:2500 Western Blot: 1:1000

Continued Overleaf******
**SPECIFICATIONS:**

Clone: 2G6

Hybridoma Production:

Immunization: Mouse monoclonal antibody raised against N-terminal pyroglutamated synthetic amyloid beta peptide (aa 3-8) conjugated with carrier protein (KLH).

Specificity: This antibody is specific for human and mouse. Based on amino acid sequence homology, reactivity with most vertebrates including dog, pig, and chicken is expected.

IgG Class: Mouse IgG1

**TEST RESULTS:**

IHC staining of brain tissue section:

![Immunolabelling of senile plaques in cortex from 17 month-old triple-transgenic AD mouse. Antibody dilution 1:100](image)

N.B. Appropriate control samples should always be included in any labeling studies.

* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

**REFERENCES:**


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