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## beta-Amyloid (1-42) Mouse mAb

Catalog Number: bsm-4713M

Target Protein: beta-Amyloid (1-42)

Concentration: 1mg/ml

Form: Size : 50ul/100ul/200ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 2C9

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:500-5000), IHC-F (1:500-5000), IF (1:200-5000)

Reactivity: Human (predicted:Mouse, Rat)

Predicted MW: 4.4 kDa

Entrez Gene: 351

Swiss Prot: P05067

Source: KLH conjugated synthetic peptide derived from human beta-Amyloid: 1-42/42.

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/200ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

0.01M PBS

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The cerebral and vascular plaques associated with Alzheimer's disease are mainly composed of Amyloid beta peptides. beta Amyloid is derived from cleavage of the Amyloid precursor protein and varies in length from 39 to 43 amino acids. beta Amyloid [1-40], beta Amyloid [1-42], and beta Amyloid [1-43] peptides result from cleavage of Amyloid precursor protein after residues 40, 42, and 43, respectively. The cleavage takes place by gamma-secretase during the last Amyloid precursor protein processing step. beta Amyloid [1-40], beta Amyloid [1-42], and beta Amyloid [1-43] peptides are major constituents of the plaques and tangles that occur in Alzheimer's disease. beta Amyloid antibodies and peptides have

been developed as tools for elucidating the biology of Alzheimer's disease.

## PRODUCT SPECIFIC PUBLICATIONS

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[IF=5.834] Yunxiao Dou. et al. Presequence protease reverses mitochondria-specific amyloid- $\beta$ -induced mitophagy to protect mitochondria. FASEB J. 2023 Apr;37(5):e22890 IF ; Mouse,Human . 37002885

[IF=3.5] Lei Li. et al. The Improvement Effects of Sika Deer Antler Protein in an Alzheimer's Disease Mouse Model via the Microbe-Gut-Brain Axis. FOOD SCI NUTR. 2024 Dec;13(1):e4656 IHC ; Mouse . 39803278

[IF=2.59] Wang, Chen, et al. "Downregulation of PI3K/Akt/mTOR signaling pathway in curcumin-induced autophagy in APP/PS1 double transgenic mice." European Journal of Pharmacology (2014). IHC ; ="Mouse" . 25041840

[IF=2.678] Shufang Na. et al. Chronic Neuroinflammation Induced by Lipopolysaccharide Injection into the Third Ventricle Induces Behavioral Changes. 2021 Jan 06 IHC ; Rat . 33405196