bsm-4713M **[Primary Antibody]**

beta-Amyloid (1-42) Mouse mAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 2C9
GeneID: 351
SWISS: P05067
Target: beta-Amyloid (1-42)
Immunogen: KLH conjugated synthetic peptide derived from human beta-Amyloid: 1-42/42. < Cytoplasmic >
Purification: affinity purified by Protein G
Concentration: 1mg/ml
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.

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
Subcellular Location: Cell membrane

SELECTED CITATIONS

- **[IF=5.834]** Yunxiao Dou. et al. Presequence protease reverses mitochondria-specific amyloid-β-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