bs-23379R **[Primary Antibody]**

Aβ1-42 (CT) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 351 **SWISS:** P05067

Target: Aβ1-42 (CT)

Immunogen: KLH conjugated synthetic peptide derived from human Aβ1-42 (CT): 37-42/42. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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

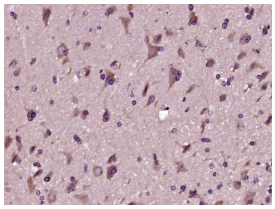
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human

Predicted MW.: 4.4 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Aβ1-42 (C-t)) Polyclonal Antibody, Unconjugated (bs-23379R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=7.9]** Tiantian Ye. et al. Borneol regulates meningeal lymphatic valve plasticity to clear Aβ aggregates in the prevention of AD-like symptoms. PHYTOMEDICINE. 2024 May;:155753 IF ;Mouse. 38795693
- **[IF=5.735]** Xianan Dong. et al. Ginsenoside Rg1 treatment protects against cognitive dysfunction via inhibiting PLC–CN–NFAT1 signaling in T2DM mice. J GINSENG RES. 2022 Dec;: IF ;Mouse. 10.1016/j.jgr.2022.12.006

- **[IF=5.6]** Qifeng Shi. et al. PLC-CN-NFAT1 signaling-mediated Aβ and IL-1β crosstalk synergistically promotes hippocampal neuronal damage. INT IMMUNOPHARMACOL. 2024 Jun;134:112259 IF ;Mouse. 38749336
- **[IF=6.1]** Tang Yong. et al. Activation of autophagy by Citri Reticulatae Semen extract ameliorates amyloid-beta-induced cell death and cognition deficits in Alzheimer’ s disease. NEURAL REGEN RES. 2024 Jan;:10.4103/NRR.NRR IF ;Mouse. 10.4103/NRR.NRR-D-23-00954
- **[IF=5.59]** Sun, Zhenghao. et al. SOCE-mediated NFAT1–NOX2–NLRP1 inflammasome involves in lipopolysaccharide-induced neuronal damage and Aβ generation. Mol Neurobiol. 2022 Mar;:1-23 WB ;Mouse. 35286582