bs-0107R **[Primary Antibody]**

beta Amyloid 1-42 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 351 **SWISS:** P05067

Target: beta Amyloid 1-42

Immunogen: KLH conjugated synthetic peptide of human beta-Amyloid: 1-42/42.

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.

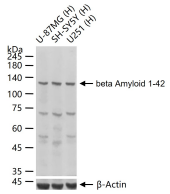
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Cow, Chicken, Dog)

Predicted MW.: 4.4 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Human U87MG cell lysates Lane 2: Human SY5Y cell lysates Lane 3: Human U251 cell lysates Primary: Anti-beta-beta Amyloid 1-42 (bs-0107R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 4.3 kDa Observed band size: 130 kDa

SELECTED CITATIONS

- **[IF=14.3]** Mengni Bao. et al.PICALM Regulating the Generation of Amyloid β-Peptide to Promote Anthracycline - Induced Cardiotoxicity.adv sci (weinh).2024 Aug;11(32):e2401945. IHC ;Mouse. 38935046
- **[IF=14.3]** Mengni Bao. et al. PICALM Regulating the Generation of Amyloid β-Peptide to Promote Anthracycline-Induced Cardiotoxicity. ADV SCI. 2024 Jun;:2401945 IHC ;Mouse. 38935046
- **[IF=5.878]** Lingling Dong. et al. Anti-inflammatory effect of Rhein on ulcerative colitis via inhibiting PI3K/Akt/mTOR signaling pathway and regulating gut microbiota. 2022 Mar 01 WB ;Mouse. 35229916

- **[IF=5.572]** Shixin Ding. et al. Chronic glucocorticoid exposure accelerates Aβ generation and neurotoxicity by activating calcium-mediated CN-NFAT1 signaling in hippocampal neurons in APP/PS1 mice. FOOD CHEM TOXICOL. 2022 Oct;168:113407 IF ;Mouse. 36075474
- **[IF=5.793]** Chunyue Wang. et al. Neuroprotective effects of verbascoside against Alzheimer’ s disease via the relief of endoplasmic reticulum stress in Aβ-exposed U251 cells and APP/PS1 mice. J Neuroinflamm. 2020 Dec;17(1):1-16 IHC ;Human, Mouse. 33070776