bs-0877R **[Primary Antibody]**

beta-Amyloid 1-40 (CT) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 351 **SWISS:** P05067

Target: beta-Amyloid 1-40 (CT)

Immunogen: KLH conjugated synthetic peptide derived from human beta-Amyloid 1-40: 37-40/40.

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.

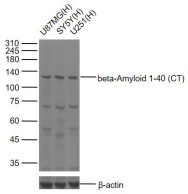
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

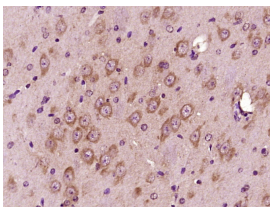
Predicted MW.: 4.3 kDa

Subcellular Location: Cell membrane

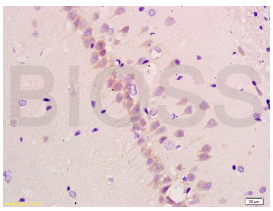
VALIDATION IMAGES



Sample: Lane 1: Human U87MG cell lysates Lane 2: Human SY5Y cell lysates Lane 3: Human U251 cell lysates Primary: Anti-beta-Amyloid 1-40 (CT) (bs-0877R) 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



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (beta-Amyloid 1-40 (CT)) Polyclonal Antibody, Unconjugated (bs-0877R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-beta-Amyloid 1-40(CT) Polyclonal Antibody, Unconjugated(bs-0877R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=4.59]** An et al. Pharmacological Basis for Use ofArmillaria melleaPolysaccharides in Alzheimer's Disease: Antiapoptosis and Antioxidation. (2017) Oxid.Med.Cell.Longev. 2017:4184562 IHC ;Mouse. 29081887
- **[IF=4.679]** Yu-Shi Gong. et al. Effects of alcohol intake on cognitive function and β-amyloid protein in APP/PS1 transgenic mice. Food Chem Toxicol. 2021 May;151:112105 IHC ;Mouse. 33737111

- **[IF=4.125]** Hong Zhao. et al. Polysaccharides from sea buckthorn (Hippophae rhamnoides L.) berries ameliorates cognitive dysfunction in AD mice induced by a combination of D-gal and AlCl3 by suppressing oxidative stress and inflammation reaction. J SCI FOOD AGR. 2023 May;: WB ;Mouse. 37132070
- **[IF=2.928]** Yu H et al. Protective roles of isoastilbin against Alzheimer's disease via Nrf2-mediated antioxidation and anti-apoptosis. Int J Mol Med. 2019 Mar;43(3):1406-1416. IHC ;Mouse. 30664148
- **[IF=1.922]** Hu et al. Pharmacological basis for application of scutellarin in Alzheimer's disease: Antioxidation and antiapoptosis. (2018) Mol.Med.Rep.Nov;18(5):4289-4296. IHC ;Mouse. 30221730