

bs-0164R**[Primary Antibody]****BACE1 Rabbit pAb****Bioss**
ANTIBODIES

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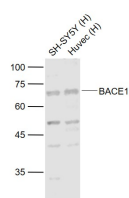
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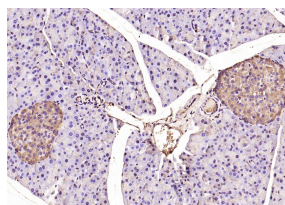
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 23621**SWISS:** P56817**Target:** BACE1**Immunogen:** KLH conjugated synthetic peptide derived from human BACE1: 401-501/501.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

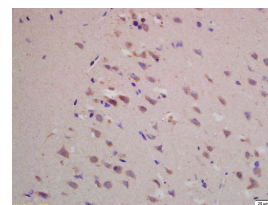
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: bs-0164P is one synthetic peptide derived from human BACE1. Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimer's disease. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein(APP) by two proteases, one of which is the protein encoded by this gene. The encoded protein, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Multiple transcript variants encoding different isoforms have been described for this gene.**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**ICC/IF** (1:100)**Reactivity:** Human, Mouse, Rat
(predicted: Rabbit, Pig, Chicken, Dog, GuineaPig)**Predicted MW.:** 51 kDa**Subcellular Location:** Cell membrane ,Cytoplasm**— VALIDATION IMAGES —**

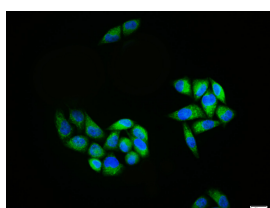
Sample: Lane 1: SH-SY5Y (Human) Cell Lysate at 30 ug Lane 2: Huvec (Human) Cell Lysate at 30 ug
 Primary: Anti-BACE1 (bs-0164R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60-70 kD Observed band size: 68 kD



Paraformaldehyde-fixed, paraffin embedded (mouse pancreas); 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 (BACE1) Polyclonal Antibody, Unconjugated (bs-0164R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); 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 (BACE1) Polyclonal Antibody, Unconjugated (bs-0164R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (BACE1) polyclonal Antibody, Unconjugated (bs-0164R)

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=8.58]** Ku, Tingting, et al. "NF-κB-regulated microRNA-574-5p underlies synaptic and cognitive impairment in response to atmospheric PM 2.5 aspiration." *Particle and Fibre Toxicology* 14.1 (2017): 34. WB ;="Mouse". 28851397
- **[IF=5.58]** Yan, Wei, et al. "NO₂ inhalation promotes Alzheimer's disease-like progression: cyclooxygenase-2-derived prostaglandin E₂ modulation and monoacylglycerol lipase inhibition-targeted medication." *Scientific Reports* 6 (2016): 22429. WB ;="Mouse". 26928013
- **[IF=5.9]** Zehao Wang. et al. Supplementation of Medium-Chain Triglycerides Combined with Docosahexaenoic Acid Inhibits Amyloid Beta Protein Deposition by Improving Brain Glucose Metabolism in APP/PS1 Mice. *NUTRIENTS*. 2023 Jan;15(19):4244 IHC ;Mouse. 37836528
- **[IF=5.108]** Yuan C et al. OAB-14, a bexarotene derivative, improves Alzheimer's disease-related pathologies and cognitive impairments by increasing β-amyloid clearance in APP/PS1 mice.(2019) *Biochim Biophys Acta Mol Basis Dis*.Jan;1865(1):161-180. WB ;Mouse. 30389579
- **[IF=5.11]** Jiao, Yanan, et al. "Osthole decreases beta amyloid levels through up-regulation of miR-107 in Alzheimer's disease." *Neuropharmacology* (2016). IHC ;="Mouse". 27143098