

Datasheet for ABIN725705
anti-BACE1 antibody (AA 401-501)

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Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | BACE1 |
| Binding Specificity: | AA 401-501 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This BACE1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

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|-----------------------|---|
| Immunogen: | KLH conjugated synthetic peptide derived from human BACE1 |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Predicted Reactivity: | Dog,Pig,Chicken,Rabbit,Guinea Pig |
| Purification: | Purified by Protein A. |

Target Details

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|---------|-------|
| Target: | BACE1 |
|---------|-------|

Target Details

| | |
|-------------------|--|
| Alternative Name: | BACE1 (BACE1 Products) |
| Background: | <p>Synonyms: ASP2, BACE, HSPC104, Beta-secretase 1, Aspartyl protease 2, Asp 2, Beta-site amyloid precursor protein cleaving enzyme 1, Beta-site APP cleaving enzyme 1, Memapsin-2, Membrane-associated aspartic protease 2, BACE1, KIAA1149</p> <p>Background: Responsible for the proteolytic processing of the amyloid precursor protein (APP). Cleaves at the N-terminus of the A-beta peptide sequence, between residues 671 and 672 of APP, leads to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase.</p> |
| Gene ID: | 23621 |
| UniProt: | P56817 |

Application Details

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| Application Notes: | WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500 |
| Restrictions: | For Research Use only |

Handling

| | |
|--------------------|--|
| Format: | Liquid |
| Concentration: | 1 µg/µL |
| Buffer: | 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |

Handling

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

Expiry Date: 12 months

Publications

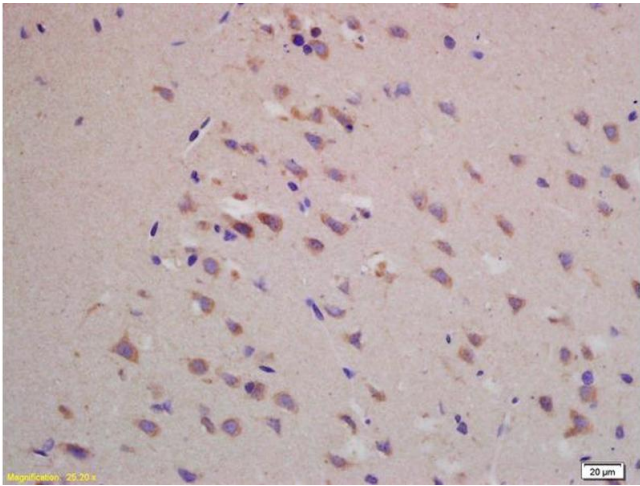
Product cited in: Ku, Li, Gao, Zhang, Yan, Ji, Li, Sang: "NF-κB-regulated microRNA-574-5p underlies synaptic and cognitive impairment in response to atmospheric PM2.5 aspiration." in: **Particle and fibre toxicology**, Vol. 14, Issue 1, pp. 34, (2018) ([PubMed](#)).

Hong, Shen, Yin, Sun, Ma, Liu: "Effects of RAGE-Specific Inhibitor FPS-ZM1 on Amyloid-β Metabolism and AGEs-Induced Inflammation and Oxidative Stress in Rat Hippocampus." in: **Neurochemical research**, Vol. 41, Issue 5, pp. 1192-9, (2016) ([PubMed](#)).

Yan, Yun, Ku, Li, Sang: "NO2 inhalation promotes Alzheimer's disease-like progression: cyclooxygenase-2-derived prostaglandin E2 modulation and monoacylglycerol lipase inhibition-targeted medication." in: **Scientific reports**, Vol. 6, pp. 22429, (2016) ([PubMed](#)).

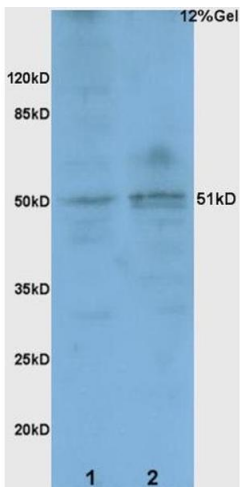
Jiao, Kong, Yao, Li, Tao, Yan, Yang: "Osthole decreases beta amyloid levels through up-regulation of miR-107 in Alzheimer's disease." in: **Neuropharmacology**, Vol. 108, pp. 332-44, (2016) ([PubMed](#)).

Tian, Guo, Wu, Ma, Zhao: "Minocycline Alleviates Sevoflurane-Induced Cognitive Impairment in Aged Rats." in: **Cellular and molecular neurobiology**, (2015) ([PubMed](#)).



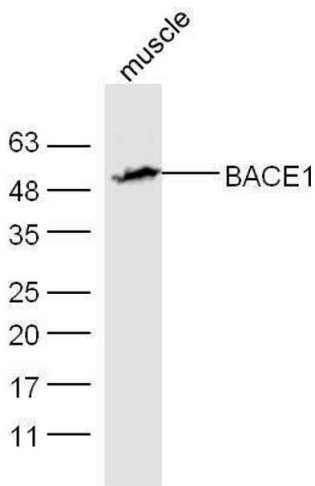
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti BACE1/ASP2 Polyclonal Antibody, Unconjugated (ABIN725705) at 1:200 followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 2. L1 rat brain lysates probed with Anti BACE1/ASP2 Polyclonal Antibody, Unconjugated (ABIN725705) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 51kD. Observed band size:51kD.



Western Blotting

Image 3. Mouse muscle lysates probed with Rabbit Anti-BACE1 Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.