

BACE/Asp2 Polyclonal Antibody

CATALOG #:	6101-100
AMOUNT:	100 µg
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide surrounding amino acid 490 of human BACE.
SPECIES REACTIVITY:	human, mouse

BACKGROUND:

Accumulation of the amyloid- β (A β) plaque in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. A β peptide is generated by proteolytic cleavage of the β -amyloid protein precursor (APP) at β - and γ -sites by two proteases. APP is first cleaved by β -secretase, producing a soluble derivative of the protein and a membrane anchored 99-amino acid carboxy-terminal fragment (C99). The C99 fragment serves as substrate for γ -secretase to generate the 4 kDa amyloid- β peptide, which is deposited in the brains of all sufferers of Alzheimer's disease. The long-sought β -secretase was recently identified by several groups independently and designated beta-site APP cleaving enzyme (BACE) and aspartyl protease 2 (Asp2). BACE/Asp2 is a novel transmembrane aspartic protease and colocalizes with APP.

FORMULATION:

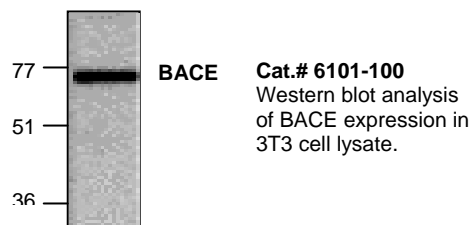
100 µg (0.5 mg/ml) purified rabbit anti-BACE polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

APPLICATION AND USAGE:

The antibody detects ~70 kDa BACE by Western blot analysis (1-4 µg/ml). However, the optimal conditions should be determined individually. Human brain tissue lysate can be used as a positive control.



RELATED PRODUCTS:

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- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

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- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

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- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
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- β -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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