SunLong Biotech Co.,LTD
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Rabbit Anti-BACE1 antibody

SL0164R

Product Name	BACE1
Chinese Name	β 分泌酶抗体
Alias	APP beta secretase; Asp 2; ASP2; Aspartyl protease 2; BACE 1; BACE; Beta secretase 1; Beta secretase; Beta site amyloid beta A4 precursor protein cleaving enzyme; Beta site amyloid precursor protein cleaving enzyme 1; Beta site amyloid precursor protein cleaving enzyme; Beta site APP cleaving enzyme 1; Beta site APP cleaving enzyme; FLJ90568; HSPC104; KIAA1149; Memapsin-2; Memapsin 2; Memapsin2; Membrane associated aspartic protease 2; Transmembrane aspartic proteinase Asp2; BACE1_HUMAN; Beta-secretase 1; Beta-site amyloid precursor protein cleaving enzyme 1; Beta-site APP cleaving enzyme 1; Membrane-associated aspartic protease 2.
Research Area	Neurobiology Signal transduction Apoptosis Kinases and Phosphatases Synthesis and Degradation Alzheimer's
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Rabbit,GuineaPig)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	51kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human BACE1: 401-501/501
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

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

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

PubMed PubMed

Product Detail

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. [provided by RefSeq].

Function:
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.

Subunit:
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.

Subcellular Location:
Membrane.

Tissue Specificity:
Expressed at high levels in the brain and pancreas. In the brain, expression is highest in the substantia nigra, locus coruleus and medulla oblongata.

Post-translational modifications:
Glycosylated.

Similarity:
Belongs to the peptidase A1 family.

SWISS:
P56817

Gene ID:

23621

Database links:

Entrez Gene: 23621 Human

Entrez Gene: 23821 Mouse

Entrez Gene: 29392 Rat

Omim: 604252 Human

SwissProt: P56817 Human

SwissProt: P56818 Mouse

SwissProt: P56819 Rat

Unigene: 504003 Human

Unigene: 24044 Mouse

Unigene: 207201 Rat

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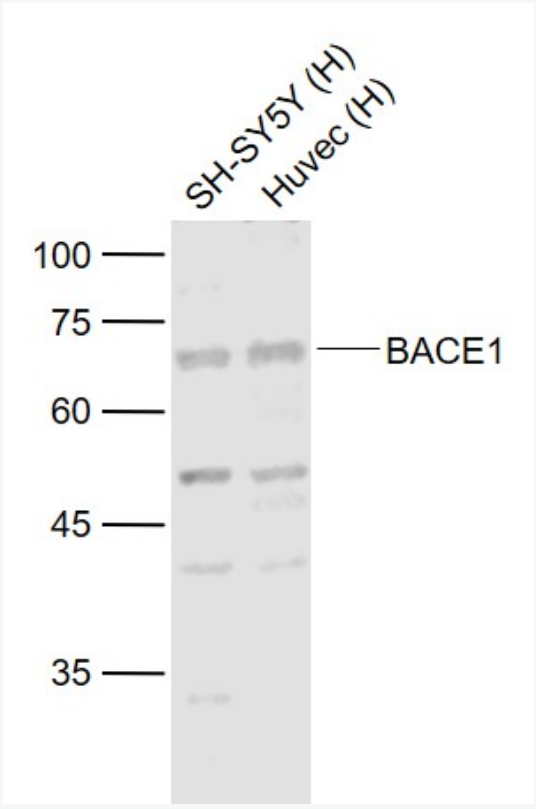
Product Picture



Sample:

Lane 1: SH-SY5Y (Human) Cell Lysate at 30 ug

Lane 2: Huvec (Human) Cell Lysate at 30 ug

Primary: Anti-BACE1 (SL0164R) 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

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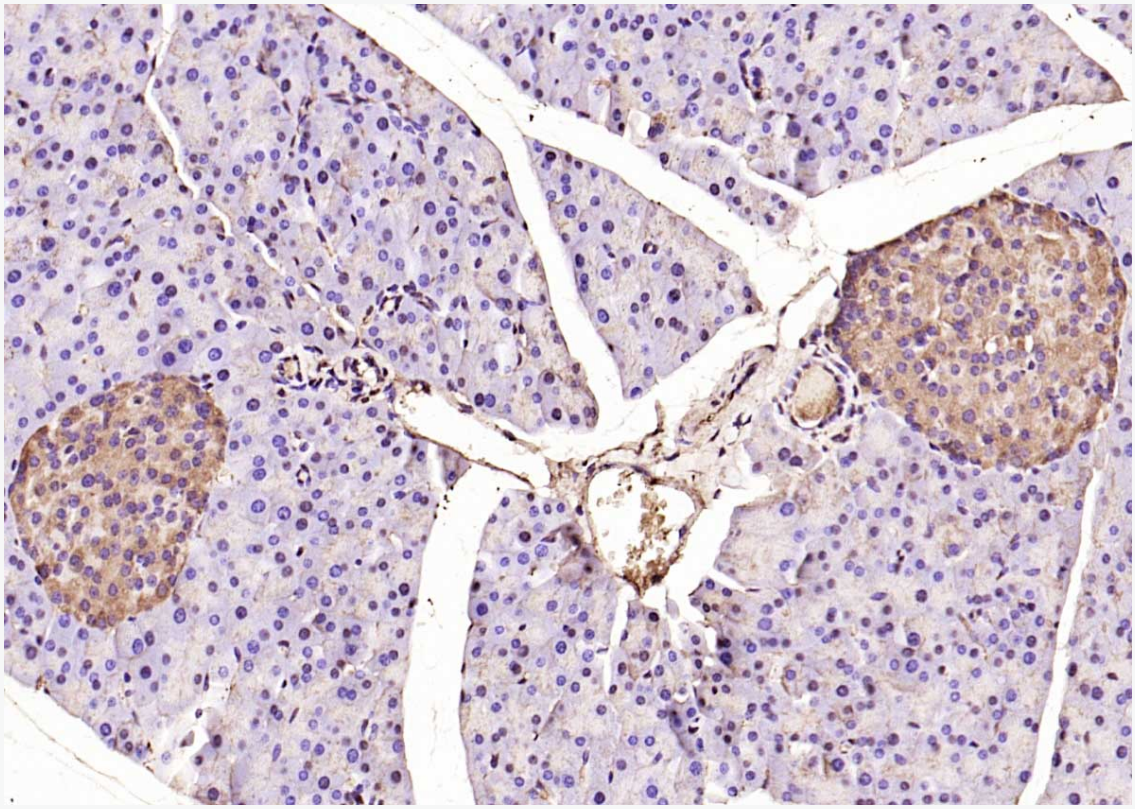

Paraformaldehyde-fixed, paraffin embedded (mouse pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (BACE1) Polyclonal Antibody, Unconjugated (SL0164R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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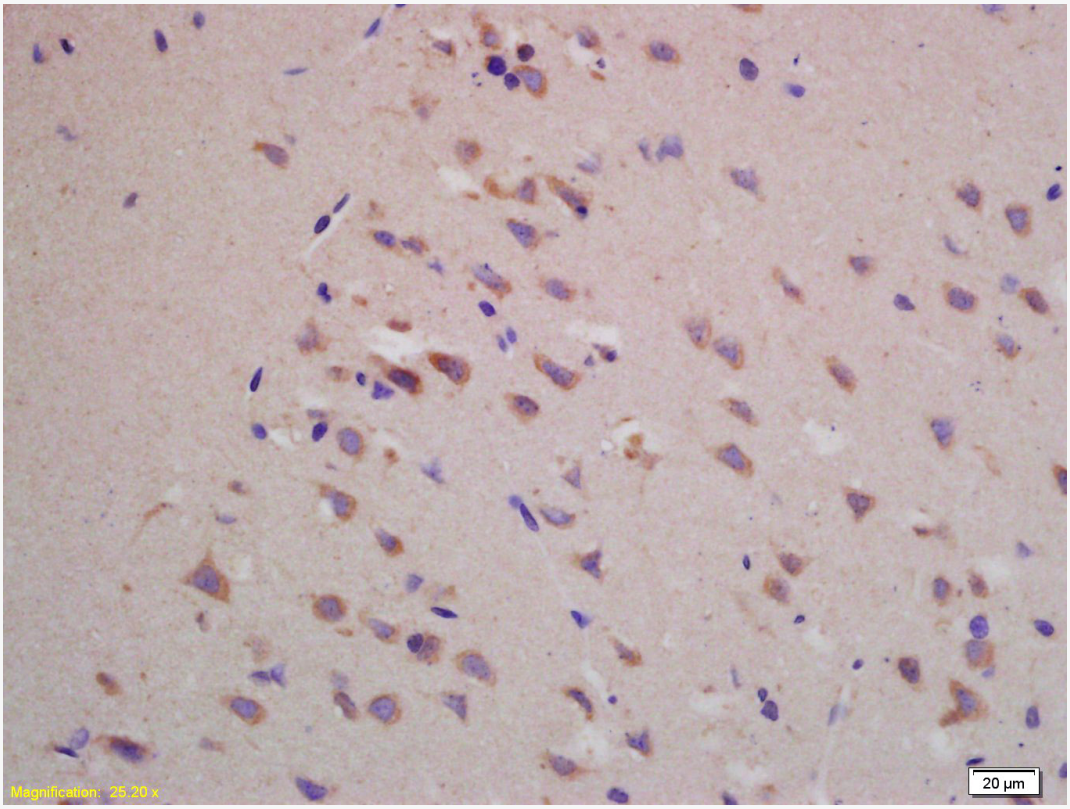

Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (BACE1) Polyclonal Antibody, Unconjugated (SL0164R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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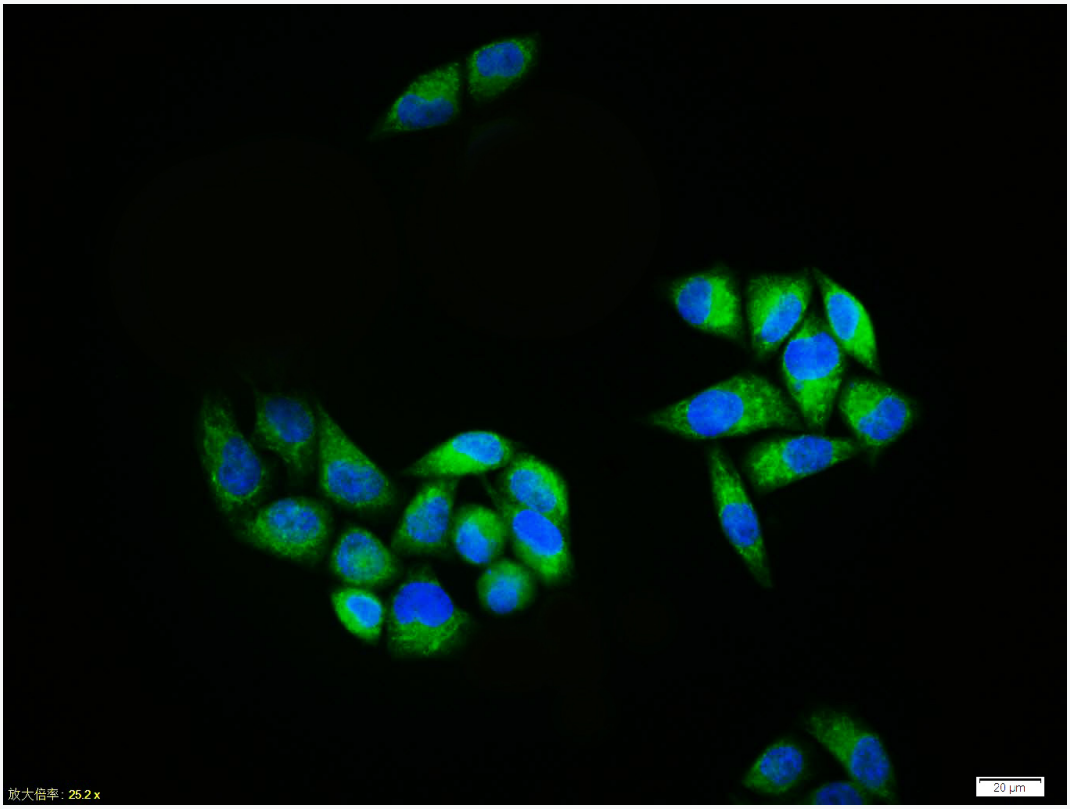

Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (BACE1) polyclonal Antibody, Unconjugated (SL0164R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

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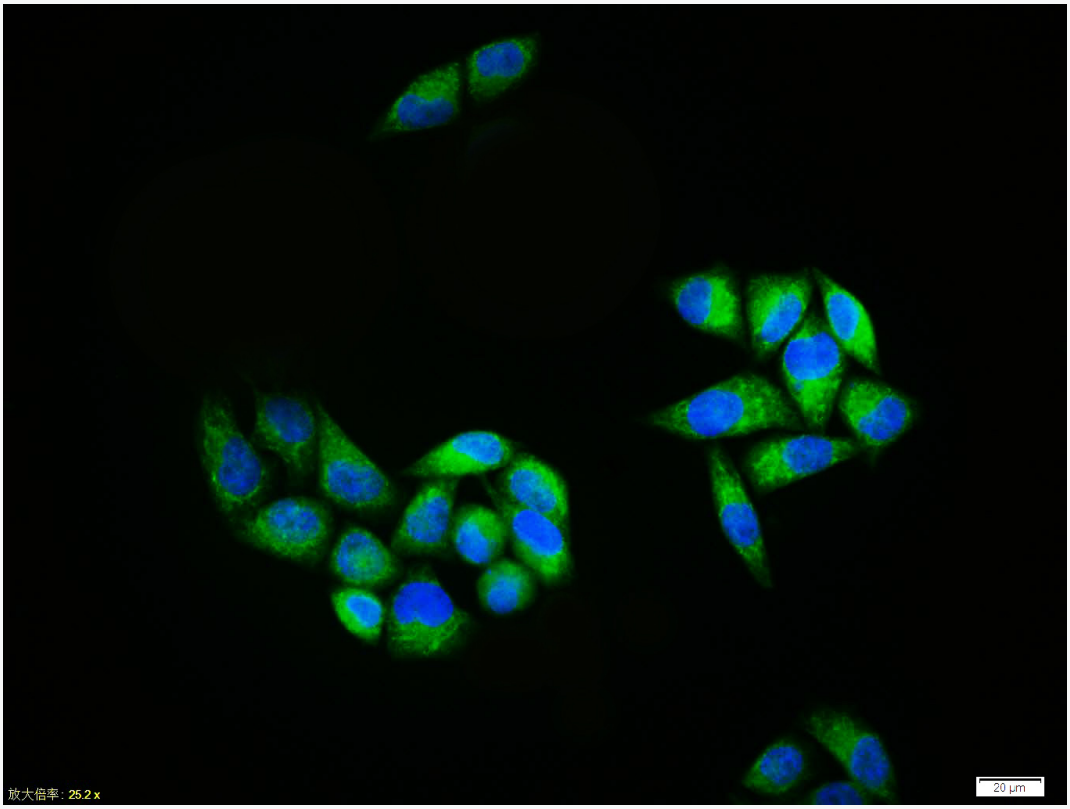

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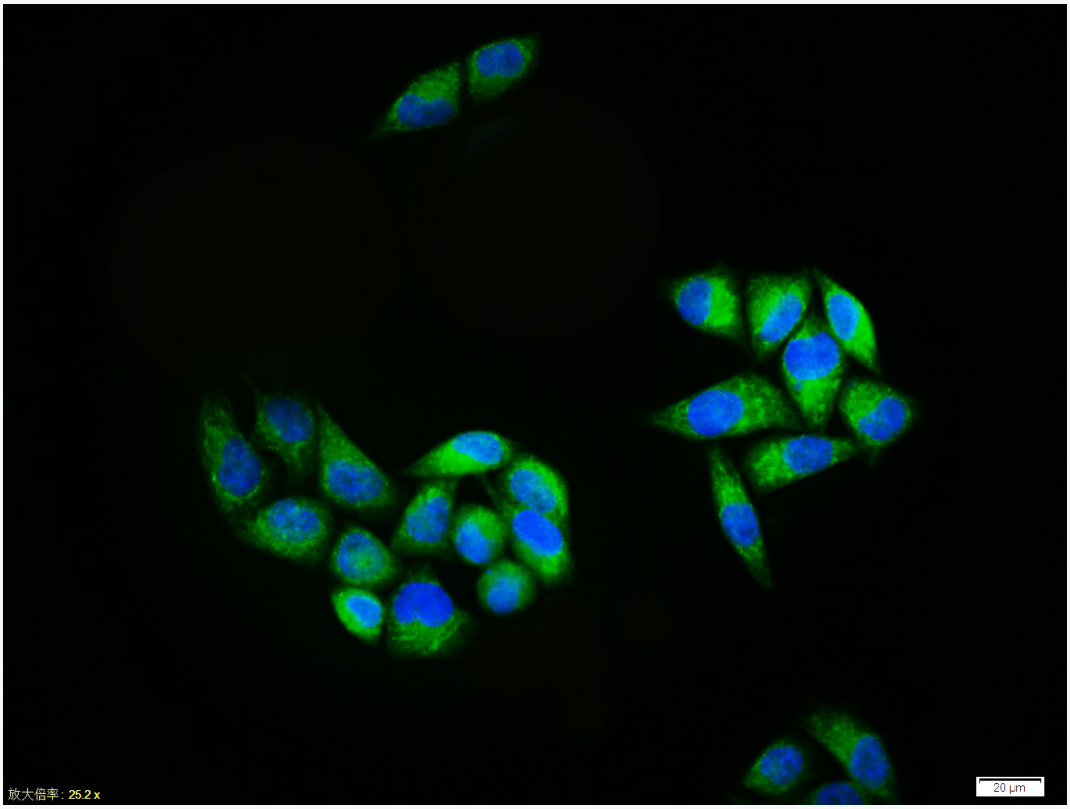

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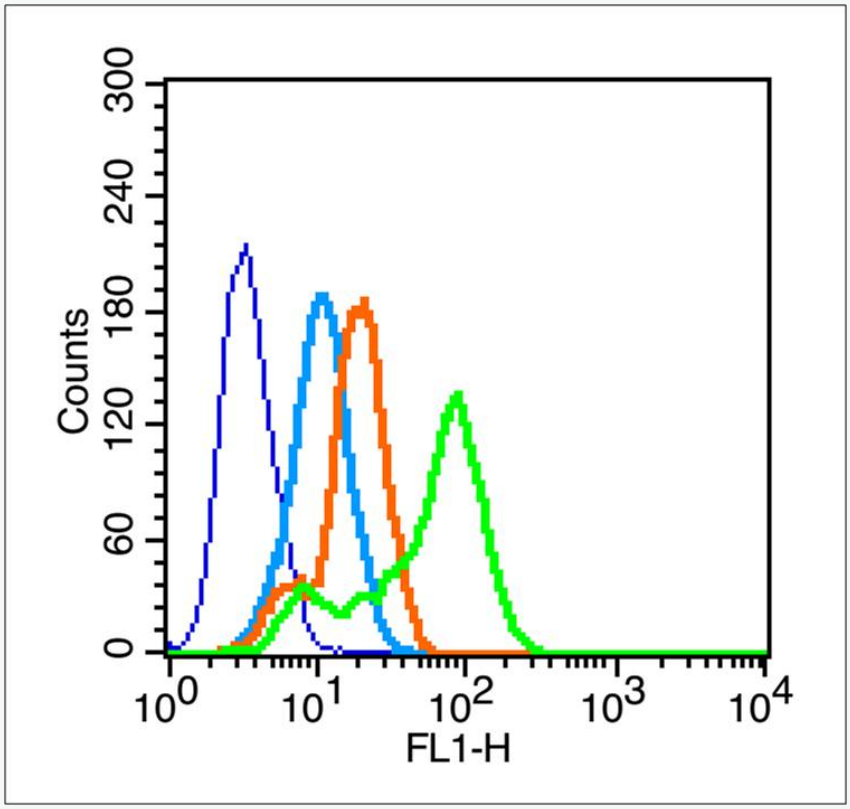

Blank control (blue line): MCF7(blue)(The cells were fixed with 2% paraformaldehyde for 10 min at room temperature) Primary Antibody (green line): Rabbit Anti-BACE1 antibody(SL0164R) ； Dilution: 1μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE； Dilution: 1μg /test.