



Rabbit Anti-APPBP1 antibody

SL12503R

Product Name:	APPBP1
Chinese Name:	β淀粉样蛋白前体蛋白Binding protein1抗体
Alias:	59 kDa; A 116A10.1; Amyloid beta precursor protein binding protein 1 59kD; Amyloid beta precursor protein binding protein 1 59kDa; Amyloid beta precursor protein binding protein 1; Amyloid beta precursor protein-binding protein 1; Amyloid protein binding protein 1; Amyloid protein-binding protein 1; APP BP1; APP-BP1; APPBP 1; HPP 1; HPP1; NAE 1; NAE1; NEDD8 activating enzyme E1 regulatory subunit; NEDD8 activating enzyme E1 subunit 1; NEDD8 activating enzyme E1 subunit; NEDD8-activating enzyme E1 regulatory subunit; Proto oncogene protein 1; Proto-oncogene protein 1; Protooncogene protein 1; ula 1; ULA1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	60kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human APPBP1:401-500/534
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

APPBP1 is a member of the ubiquitin-activating E1 family. In fetal tissues APPBP1 is widely expressed and in adult tissues it is expressed throughout the brain. APPBP1 is a cell membrane associated protein and functions as the regulatory subunit in a heterodimer with UBA3. The APPBP1/UBA3 complex binds to and activates NEDD8, a ubiquitin-like protein involved in signal transduction, cell proliferation and development. This suggests that APPBP1 affects a variety of cellular functions. In addition, APPBP1 is essential for cell cycle progression through the S/M checkpoint. More specifically, it inhibits the entry into S phase and promotes entry into M phase.

Function:

Regulatory subunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by first adenylating its C-terminal glycine residue with ATP, thereafter linking this residue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3 thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteine of UBE2M. Necessary for cell cycle progression through the S-M checkpoint. Overexpression of NAE1 causes apoptosis through deregulation of NEDD8 conjugation.

Subunit:

Heterodimer of UBA3 and NAE1. The complex binds NEDD8 and UBE2M. Binds APP and TP53BP2.

Subcellular Location:

Cell membrane. Colocalizes with APP in lipid rafts.

Tissue Specificity:

Ubiquitous in fetal tissues. Expressed throughout the adult brain.

Post-translational modifications:

Ubiquitinated by TRIP12, leading to its degradation by the proteasome.

Similarity:

Belongs to the ubiquitin-activating E1 family. ULA1 subfamily.

SWISS:

Q13564

Gene ID:

8883

Database links:

[Entrez Gene: 8883](#) Human

[Entrez Gene: 234664](#) Mouse

[Omim: 603385](#) Human

Product Detail:

[SwissProt: Q13564](#) Human

[SwissProt: Q8VBW6](#) Mouse

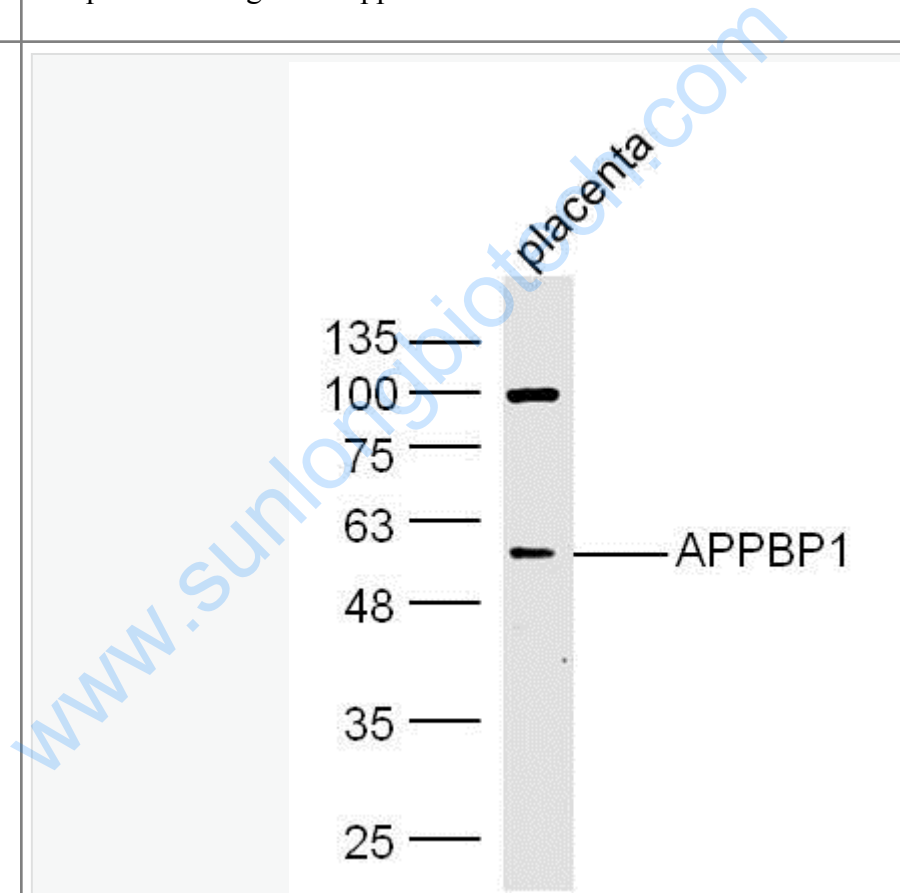
[Unigene: 460978](#) Human

[Unigene: 237670](#) Mouse

Important Note:

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

Picture:



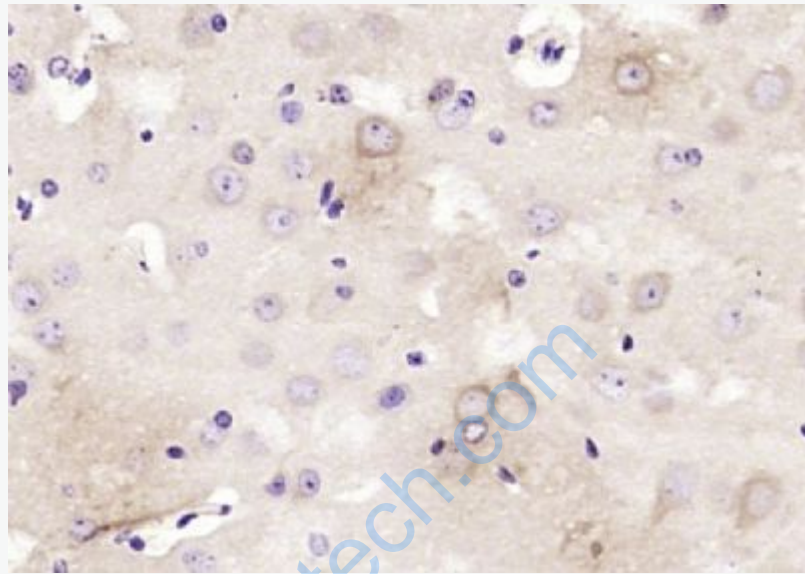
Sample: Placenta (Mouse) Lysate at 40 ug

Primary: Anti-APPBP1 (SL12503R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 60 kD

Observed band size: 60 kD



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 (APPBP1) Polyclonal Antibody, Unconjugated (SL12503R) 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); 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 (APPBP1) Polyclonal Antibody, Unconjugated (SL12503R) at 1:200 overnight at 4°C, followed by operating according to SP

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