

Anti-APPBP1 Picoband Antibody
Catalog # ABO12030**Specification****Anti-APPBP1 Picoband Antibody - Product Information**

Application	WB
Primary Accession	Q13564
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for NEDD8-activating enzyme E1 regulatory subunit(NAE1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-APPBP1 Picoband Antibody - Additional Information

Gene ID 8883

Other Names

NEDD8-activating enzyme E1 regulatory subunit, Amyloid beta precursor protein-binding protein 1, 59 kDa, APP-BP1, Amyloid protein-binding protein 1, Proto-oncogene protein 1, NAE1, APPBP1

Calculated MW

60246 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cell membrane . Colocalizes with APP in lipid rafts.

Tissue Specificity

Ubiquitous in fetal tissues. Expressed throughout the adult brain. .

Protein Name

NEDD8-activating enzyme E1 regulatory subunit

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃N.

Immunogen

E.coli-derived human APPBP1 recombinant protein (Position: E181-L534). Human APPBP1 shares 98% amino acid (aa) sequence identity with mouse APPBP1.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-APPBP1 Picoband Antibody - Protein Information

Name NAE1

Synonyms APPBP1

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. The covalent attachment of NEDD8 to target proteins is known as 'neddylation' and the process is involved in the regulation of cell growth, viability and development.

Cellular Location

Cell membrane. Note=Colocalizes with APP in lipid rafts

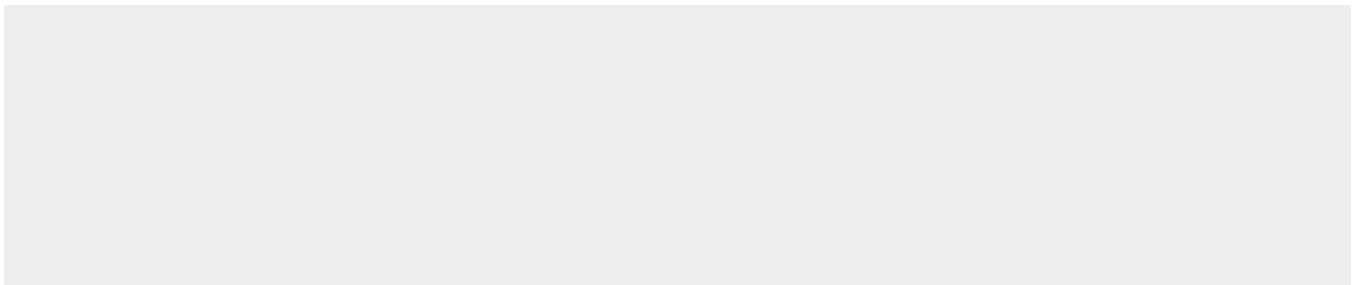
Tissue Location

Ubiquitous in fetal tissues. Expressed throughout the adult brain.

Anti-APPBP1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-APPBP1 Picoband Antibody - Images



100KD -
70KD -
55KD -
35KD -
25KD -

Anti- APPBP1 Picoband antibody, ABO12030, Western blotting All lanes: Anti APPBP1 (ABO12030) at 0.5ug/ml WB: Recombinant Human APPBP1 Protein 0.5ng Predicted bind size: 42KD Observed bind size: 42KD

Anti-APPBP1 Picoband Antibody - Background

NAE1 is also known as APPBP1. The protein encoded by this gene binds to the beta-amyloid precursor protein. Beta-amyloid precursor protein is a cell surface protein with signal-transducing properties, and it is thought to play a role in the pathogenesis of Alzheimer's disease. In addition, the encoded protein can form a heterodimer with UBE1C and bind and activate NEDD8, a ubiquitin-like protein. This protein is required for cell cycle progression through the S/M checkpoint. Three transcript variants encoding different isoforms have been found for this gene.