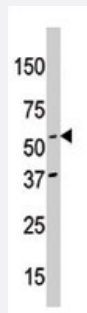


NAE1 polyclonal antibody

Catalog # PAB2845

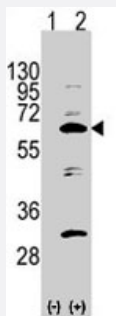
Size 400 uL

Applications



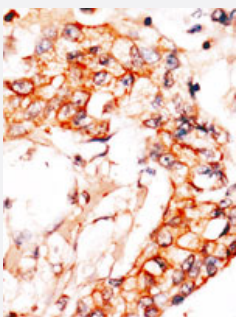
Western Blot (Tissue lysate)

Western blot analysis of NAE1 polyclonal antibody (Cat # PAB2845) in mouse brain tissue lysates (35 ug/lane). NAE1 (arrow) was detected using the purified polyclonal antibody.



Western Blot (Transfected lysate)

Western blot analysis of NAE1 (arrow) using rabbit NAE1 polyclonal antibody (Cat # PAB2845). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the NAE1 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma reacted with NAE1 polyclonal antibody (Cat # PAB2845), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of NAE1.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human NAE1.

| | |
|---------------------|--|
| Host | Rabbit |
| Reactivity | Human |
| Form | Liquid |
| Purification | Protein G purification |
| Recommend Usage | Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS (0.09% sodium azide) |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Western Blot (Tissue lysate)

Western blot analysis of NAE1 polyclonal antibody (Cat # PAB2845) in mouse brain tissue lysates (35 ug/lane). NAE1 (arrow) was detected using the purified polyclonal antibody.

- Western Blot (Transfected lysate)

Western blot analysis of NAE1 (arrow) using rabbit NAE1 polyclonal antibody (Cat # PAB2845). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the NAE1 gene (Lane 2) (Origene Technologies).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — NAE1

| | |
|--------------------|----------------------------------|
| Entrez GeneID | 8883 |
| Protein Accession# | Q13564;NP_003896 |
| Gene Name | NAE1 |
| Gene Alias | A-116A10.1, APPBP1, HPP1, ula-1 |

| | |
|--------------------|---|
| Gene Description | NEDD8 activating enzyme E1 subunit 1 |
| Omim ID | 603385 |
| Gene Ontology | Hyperlink |
| Gene Summary | 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. [provided by RefSeq] |
| Other Designations | NEDD8-activating enzyme E1 subunit amyloid beta precursor protein binding protein 1, 59kDa amyloid beta precursor protein-binding protein 1, 59kD amyloid protein-binding protein 1 protooncogene protein 1 |

Publication Reference

- [APP-BP1 mediates APP-induced apoptosis and DNA synthesis and is increased in Alzheimer's disease brain.](#)

Chen Y, Liu W, McPhie DL, Hassinger L, Neve RL.

Journal of Cellular Biology 2003 Oct; 163(1):27.

- [ASPP2 inhibits APP-BP1-mediated NEDD8 conjugation to cullin-1 and decreases APP-BP1-induced cell proliferation and neuronal apoptosis.](#)

Chen Y, Liu W, Naumovski L, Neve RL.

Journal of Neurochemistry 2003 May; 85(3):801.

Application: WB-Tr, Human, HeLa, HEK 293 cells

- [Insights into the ubiquitin transfer cascade from the structure of the activating enzyme for NEDD8.](#)

Walden H, Podgorski MS, Schulman BA.

Nature 2003 Mar; 422(6929):330.