

## ARG59154 anti-NAE1 / APPBP1 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes NAE1 / APPBP1
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NAE1 / APPBP1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-220 of Human NAE1 (NP_003896.1).
Conjugation	Un-conjugated
Alternate Names	APP-BP1; APPBP1; A-116A10.1; Amyloid protein-binding protein 1; HPP1; Amyloid beta precursor protein-binding protein 1, 59 kDa; NEDD8-activating enzyme E1 regulatory subunit; ula-1; Proto-oncogene protein 1

### Application Instructions

Application table	Application	Dilution
	WB	1:1000 - 1:4000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HL-60	
Observed Size	60 kDa	

### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol	NAE1
Gene Full Name	NEDD8 activating enzyme E1 subunit 1
Background	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, Jul 2008]
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. [UniProt]
Calculated Mw	60 kDa
PTM	Ubiquitinated by TRIP12, leading to its degradation by the proteasome. [UniProt]
Cellular Localization	Cell membrane. Note=Colocalizes with APP in lipid rafts. [UniProt]

## Images

