

KD-Validated Anti-NAE1 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2087

Product Information

Application	WB
Primary Accession	Q13564
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB13290
Calculated MW	60246
Gene Name	NAE1
Aliases	NAE1; NEDD8 Activating Enzyme E1 Subunit 1; APP-BP1; APPBP1; Ula-1; Amyloid Beta Precursor Protein-Binding Protein 1, 59 kDa ; Amyloid Beta Precursor Protein Binding Protein 1, 59kDa; NEDD8-Activating Enzyme E1 Regulatory Subunit; Amyloid Protein-Binding Protein 1; Proto-Oncogene Protein 1; Amyloid Beta Precursor Protein-Binding Protein 1, 59kD; NEDD8-Activating Enzyme E1 Subunit; Protooncogene Protein 1; A-116A10.1; NEDFIH; HPP1
Immunogen	Recombinant protein of human NAE1

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

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.

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