10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-AATF Antibody (clone 3C7)

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17982

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q9NY61
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Names	3C7
Calculated MW	63133
Concentration (mg/ml)	0.46 mg/ml

Additional Information

Gene ID	26574
Alias Symbol	AATF
Other Names	AATF, CHE1, DED, Rb-binding protein Che-1, CHE-1, Protein AATF
Target/Specificity	Human AATF
Reconstitution & Storage	Protein A purified
Precautions	Anti-AATF Antibody (clone 3C7) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AATF (HGNC:19235)
Synonyms	CHE1, DED
Function	Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre- rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre- ribosomal RNA by the RNA exosome (PubMed:34516797). May function as a general inhibitor of the histone deacetylase HDAC1. Binding to the pocket region of RB1 may displace HDAC1 from RB1/E2F complexes, leading to activation of E2F target genes and cell cycle progression. Conversely, displacement of HDAC1 from SP1 bound to the CDKN1A promoter leads to increased expression of this CDK inhibitor and

	blocks cell cycle progression. Also antagonizes PAWR mediated induction of aberrant amyloid peptide production in Alzheimer disease (presenile and senile dementia), although the molecular basis for this phenomenon has not been described to date.
Cellular Location	Nucleus, nucleolus
Tissue Location	Ubiquitously expressed. Expressed at high levels in brain, heart, kidney, placenta and thymus