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

AATF (1P8) Rabbit Monoclonal Antibody

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Catalog # AP93718

Product Information

Application	WB, IF, ICC, IP
Primary Accession	Q9NY61, Q9JKX4
Reactivity	Human, Mouse
Clonality	Monoclonal
Calculated MW	63133

Additional Information

Gene ID	26574
Dilution	WB~~1:1000 IF~~1:50~200 ICC~~N/A IP~~N/A
Storage Conditions	-20℃

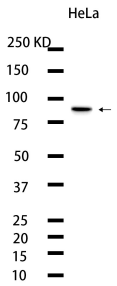
Protein Information

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

Background

The protein encoded by this gene was identified on the basis of its interaction with MAP3K12/DLK, a protein kinase known to be involved in the induction of cell apoptosis. This gene product contains a leucine zipper, which is a characteristic motif of transcription factors, and was shown to exhibit strong transactivation activity when fused to Gal4 DNA binding domain. Overexpression of this gene interfered with MAP3K12 induced apoptosis. [provided by RefSeq, Jul 2008]

Images



Western blot analysis of extracts from HeLa cells using AP93718 at 1:1000.