

AATF (1P8) Rabbit Monoclonal Antibody

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Catalog # AP93718

Product Information

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

Additional Information

| | |
|---------------------------|-----------------------------|
| Gene ID | 26574 |
| Dilution | WB~~1:1000 ICC~~N/A IP~~N/A |
| Storage Conditions | -20°C |

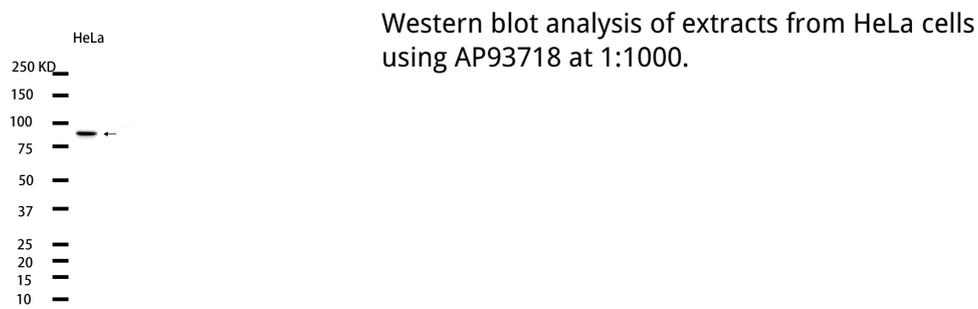
Protein Information

| | |
|--------------------------|---|
| Name | AATF (HGNC:19235) |
| Synonyms | CHE1, DED |
| Function | <p>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.</p> |
| 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



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