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Anti-AATF Antibody

Catalog # AP50944

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9NY61
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63133

Additional Information

Gene ID	26574
Other Names	CHE1; DED; Protein AATF; Apoptosis-antagonizing transcription factor; Rb-binding protein Che-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human AATF. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

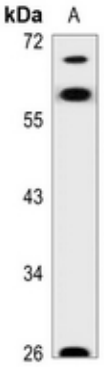
Name	AATF (HGNC:19235)
Synonyms	CHE1, DED
Function	Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with 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

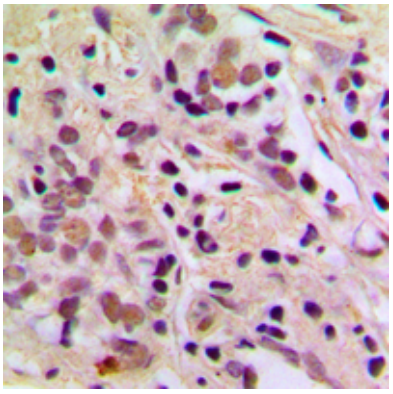
References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).
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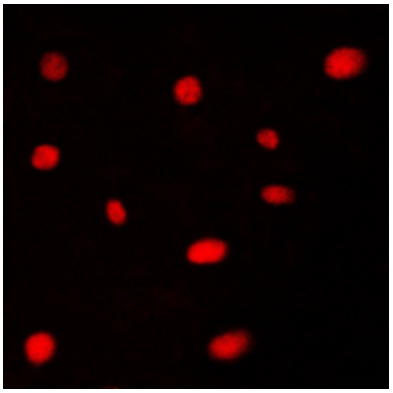
Images



Western blot analysis of AATF expression in Hela (A) whole cell lysates. (Predicted band size: 63 kD; Observed band size: 63 kD)



Immunohistochemical analysis of AATF staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of AATF staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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