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AATF Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50944

Specification

AATF Antibody - Product Information

Application	**WB**
Primary Accession	Q9NY61
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**63 KDa**
Antigen Region	**21 - 80**

AATF Antibody - Additional Information

Gene ID 26574

Other Names
Protein AATF, Apoptosis-antagonizing transcription factor, Rb-binding protein Che-1, AATF, CHE1, DED

Target/Specificity
KLH conjugated synthetic peptide derived from human AATF

Dilution
WB~~ 1:1000

Format
0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage
Store at -20 °C.Stable for 12 months from date of receipt

AATF Antibody - 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

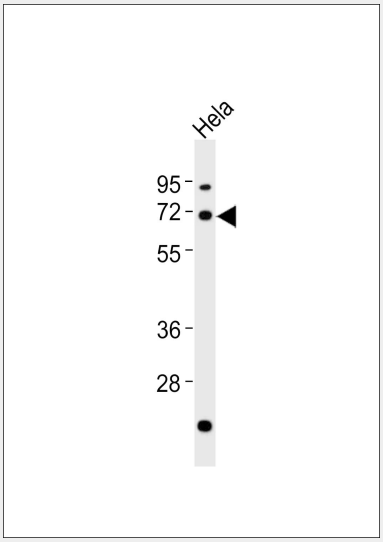
Tissue Location
Ubiquitously expressed. Expressed at high levels in brain, heart, kidney, placenta and thymus

AATF Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AATF Antibody - Images



Anti-AATF Antibody at 1:1000 dilution + HeLa whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 63 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

AATF Antibody - Background

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.

AATF Antibody - References

Lindfors K.,et al.Biochem. Biophys. Res. Commun. 276:660-666(2000).
Fanciulli M.,et al.FASEB J. 14:904-912(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.