SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-AATF/AF594 Conjugated antibody

Catalog Number: SL1229R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-AATF/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human AATF
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Pig,Cow,Horse,Rabbit,GuineaPig)
Background:	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. **Function:** 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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subunit: Binds PAWR, POLR2J, RB1/RB, RBL1/P107, RBL2/P130, and SP1. May also bind MAPT. **Subcellular Location:** Nucleus, nucleolus. **Tissue Specificity:** Ubiquitously expressed. Expressed at high levels in brain, heart, kidney, placenta and thymus. **Post-translational modifications:** Hyperphosphorylated during the G1/S phase transition. **Similarity:** Belongs to the AATF family. **Database links:** **Entrez Gene:** 26574 Human **Entrez Gene:** 56321 Mouse Omim: 608463 Human **SwissProt:** Q9NY61 Human **SwissProt:** Q3URN5 Mouse **SwissProt:** Q9JKX4 Mouse **Unigene:** 195740 Human **Unigene:** 257482 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. AATFis an antagonistic transcription factor of apoptosis,inhibits the progression of apoptosis.

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