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Anti-AATF Antibody, clone 1B2D8 from rat

Art. ID	SAF-MABC1614-25UG
Unit	1 x 25 µg
Deliverydetails	No Dangerous Good

Description

Protein AATF (UniProt: Q9JKX4, also known as Apoptosis-antagonizing transcription factor, Rb-binding protein Che-1, Traube protein) is encoded by the Aatf (also known as Che1, Trb) gene (Gene ID: 56321) in murine species. AATF is a nuclear protein that functions as a general inhibitor of the histone deacetylase HDAC1. It binds to the pocket region of RB1 to 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. AATF is expressed in adrenal gland, Purkinje cells, heart, kidney, liver, lung, muscle, ovary, and testis. It is expressed uniformly throughout the embryo until E10.5. However, from E11.5, the relative expression level increases in the liver, hind brain, spinal cord, dorsal root ganglia, and the posterior commissure. Down-regulation of AATF is involved in colon carcinoma cell proliferation and over-expression of Aatf gene interferes with MAP3K12 induced apoptosis.