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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Transcriptional regulator ATRX ATRX Antibody

Catalog Number: A00203-1

About ATRX

Involved in transcriptional regulation and chromatin remodeling. Facilitates DNA replication in multiple cellular environments and is required for efficient replication of a subset of genomic loci. Binds to DNA tandem repeat sequences in both telomeres and euchromatin and in vitro binds DNA quadruplex structures. May help stabilizing G-rich regions into regular chromatin structures by remodeling G4 DNA and incorporating H3.3-containing nucleosomes. Catalytic component of the chromatin remodeling complex ATRX:DAXX which has ATP-dependent DNA translocase activity and catalyzes the replication-independent deposition of histone H3.3 in pericentric DNA repeats outside S-phase and telomeres, and the in vitro remodeling of H3.3-containing nucleosomes. Its heterochromatin targeting is proposed to involve a combinatorial readout of histone H3 modifications (specifically methylation states of H3K9 and H3K4) and association with CBX5. Involved in maintaining telomere structural integrity in embryonic stem cells which probably implies recruitment of CBX5 to telomers. Reports on the involvement in transcriptional regulation of telomeric repeat-containing RNA (TERRA) are conflicting; according () is not sufficient to decrease chromatin condensation at telomers nor to increase expression of telomeric RNA in fibroblasts. May be involved in telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines. Acts as negative regulator of chromatin incorporation of transcriptionally repressive histone H2AFY, particularily at telomeres and the alpha-globin cluster in erythroleukemic cells. Participates in the allele-specific gene expression at the imprinted IGF2/H19 gene locus. On the maternal allele, required for the chromatin occupancy of SMC1 and CTCTF within the H19 imprinting control region (ICR) and involved in esatblishment of histone tails modifications in the ICR. May be involved in brain development and facial morphogenesis.

Picketts D.J., Hum. Mol. Genet. 5:1899-1907(1996).
Villard L., Genomics 43:149-155(1997).
Kitano T., Mol. Biol. Evol. 20:1281-1289(2003).

Overview

Product Name	Anti-Transcriptional regulator ATRX ATRX Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Transcriptional regulator ATRX ATRX Antibody (Catalog # A00203-1). Tested in IF applications. This antibody reacts with Human, Mouse.
Application	IF
Clonality	Polyclonal
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P46100

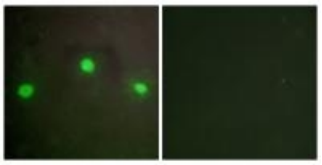
Technical Details

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Immunogen	Synthesized peptide derived from N-terminal of human ATRX.
Predicted Reactive Species	Canine, Monkey
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunofluorescence: 1:100~1:500

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Anti-Transcriptional regulator ATRX ATRX Antibody (A00203-1) Images



Immunofluorescence analysis of A549 cells, using ATRX antibody A00203-1.

1 Publications Citing This Product

1. PubMed ID: -, Co-occurrence of ATRX and IDH Mutations Identify Subgroup of Glioma Patients for Better Survival. Trivedi Trupti,Panchal Kinjal,Bhalala Neha,Jyotishi Charmi,Trivedi Priti,Panchal Harsha,Modi Nikhi

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