

Datasheet for ABIN7172768

**anti-ATRX antibody (AA 2161-2443) (Biotin)**[Go to Product page](#)

## Overview

|                      |                                            |
|----------------------|--------------------------------------------|
| Quantity:            | 100 µg                                     |
| Target:              | ATRX                                       |
| Binding Specificity: | AA 2161-2443                               |
| Reactivity:          | Human                                      |
| Host:                | Rabbit                                     |
| Clonality:           | Polyclonal                                 |
| Conjugate:           | This ATRX antibody is conjugated to Biotin |
| Application:         | ELISA                                      |

## Product Details

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| Immunogen:        | Recombinant Human Transcriptional regulator ATRX protein (2161-2443AA) |
| Isotype:          | IgG                                                                    |
| Cross-Reactivity: | Human                                                                  |
| Purification:     | >95%, Protein G purified                                               |

## Target Details

|                   |                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | ATRX                                                                                                                                                                                             |
| Alternative Name: | ATRX ( <a href="#">ATRX Products</a> )                                                                                                                                                           |
| Background:       | Background: Involved in transcriptional regulation and chromatin remodeling. Facilitates DNA replication in multiple cellular environments and is required for efficient replication of a subset |

## Target Details

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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 to a report, it is not sufficient to decrease chromatin condensation at telomers nor to increase expression of telomeric RNA in fibroblasts (PubMed:24500201). 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, particularly 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 CTCF within the H19 imprinting control region (ICR) and involved in establishment of histone tails modifications in the ICR. May be involved in brain development and facial morphogenesis. Binds to zinc-finger coding genes with atypical chromatin signatures and regulates its H3K9me3 levels. Forms a complex with ZNF274, TRIM28 and SETDB1 to facilitate the deposition and maintenance of H3K9me3 at the 3' exons of zinc-finger genes (PubMed:27029610).

Aliases: Alpha thalassemia/mental retardation syndrome X linked homolog antibody, ATP dependent helicase ATRX antibody, ATP-dependent helicase ATRX antibody, ATR2 antibody, Atrx antibody, ATRX\_HUMAN antibody, DNA dependent ATPase and helicase antibody, Helicase 2, X linked antibody, MGC2094 antibody, MRXHF1 antibody, RAD54 antibody, RAD54L antibody, SFM1 antibody, SHS antibody, Transcriptional regulator ATRX antibody, X linked helicase II antibody, X linked nuclear protein antibody, X-linked helicase II antibody, X-linked nuclear protein antibody, XH2 antibody, XNP antibody, Znf HX antibody, Znf-HX antibody

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UniProt: [P46100](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

Handling

|         |        |
|---------|--------|
| Format: | Liquid |
|---------|--------|

|         |                                                                                    |
|---------|------------------------------------------------------------------------------------|
| Buffer: | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4 |
|---------|------------------------------------------------------------------------------------|

|               |         |
|---------------|---------|
| Preservative: | ProClin |
|---------------|---------|

|                    |                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------|
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
|--------------------|-------------------------------------------------------------------------------------------------------------------|

|          |               |
|----------|---------------|
| Storage: | -20 °C,-80 °C |
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|------------------|---------------------------------------------------------------|
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
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