ATRX (GR244)

Format	Catalog No.	Pack size	Dilution
Concentrated	G2718 A, B, C	0.1, 0.5, 1.0 mL	1:100-200
Prediluted	G2718 AA, BB	6.0, 3.0 mL	Ready to use

SPECIES: Rabbit

IMMUNOGEN: Recombinant fragment (around aa2200-2450) of human ATRX protein

CLONE: GR244

ISOTYPE: IgG

FORMAT: This antibody has been pretitered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.

INTENDED USE: For Research Use Only (RUO).

BACKGROUND: As a member of the Snf2 family of helicase/ATPases, ATRX helps to initiate transcription and replication and contributes to the ATP-dependent remodelling of the nucleosome structure. ATRX has a PHD zinc finger motif structurally. ATRX is distributed differently in the nucleus and is controlled during the cell cycle. ATRX localises with condensed chromatin during mitosis, although it mostly interacts with the nuclear matrix during interphase. Phosphorylation quickly causes this shift of ATRX to the short arms of the human acrocentric chromosomes at the start of M phase. It then mediates chromosomal segregation by openly complexing with heterochromatin protein 1 Î±. High rates of severe X-linked syndromal mental retardation connected to Î±thalassemia or ATRX syndrome are correlated with mutations in the ATRX gene.

SPECIES REACTIVITY : Human

POSITIVE CONTROL : High-grade glioma

CELLULAR LOCALIZATION : Nucleus

MICROBIOLOGICAL STATE : Non-sterile product; store according to recommended guidelines.

RECOMMEDNED USAGE:

- **Immunohistochemistry (IHC):** 1–2 µg/ml
  - Requires Tris-EDTA (pH 9.0) antigen retrieval at 95°C for 45 min, followed by cooling for 20 min at RT
- **Immunofluorescence (IF):** 1–3 µg/ml
- **Storage Conditions:** 1–3 µg/ml
  - With azide: 2–8°C
  - Without azide: –20 to –80°C
- **Stability:** 24 months

LIMITATIONS AND USES:

1. For research use only (RUO).
2. Contains 0.05% sodium azide – handle with care
3. Avoid skin and mucosal contact

STABILITY AND STORAGE –

Avoid freezing. Keep between 2 and 8°C. After use, immediately return to 2–8°C. Never use after the label's stated expiration date. Before using the antibody, visually confirm that it hasn't been contaminated. If the reagent precipitates or gets hazy, do not use it.

RESTRICTIONS–

Histological and immunological detection techniques are both used in the intricate process of immunohistochemistry. Results from tissue handling and processing before immunostaining can vary. Results may differ depending on the intrinsic characteristics of the tissue samples or on differences in fixation and embedding. Depending on the detection method employed, endogenous biotin and endogenous peroxidase or pseudoperoxidase activity in erythrocytes may result in non-specific staining. The methods and suggestions in this data sheet were verified with Genebio IHC reagents and might not work with other detection systems.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com