

# ATRX

## Instructions For Use

### Specification:

Defects in alpha thalassemia/mental retardation syndrome X-linked (ATRX), a gene that encodes a protein involved in chromatin remodeling. ATRX mutation is a marker of astrocytic lineage among the IDH1-mutant gliomas and is mutually exclusive with 1p/19q codeletion. ATRX mutations are most frequently in grade II (67%) and grade III (73%) astrocytomas and secondary glioblastoma multiforme (GBM) (75%), whereas they are uncommon in primary GBMs and oligodendrogliomas. Nearly all diffuse gliomas with IDH and ATRX mutations also harbor TP53 mutation and are associated with the alternative lengthening of telomeres (ALT) phenotype. ATRX mutation also occurs in many other types of human tumors, such as neuroendocrine tumors. Immunohistochemistry for ATRX demonstrates a loss of protein expression in neoplastic cells that harbor inactivating mutations, whereas expression is retained in nonneoplastic cells within the sample, such as endothelial cells.

### Availability:

Catalog No.	Contents	Volume
VWRKILP0083-C1	ARTX	1,0 ml
VWRKILP0083-C05	ARTX	0,5 ml
VWRKILP0083-C01	ARTX	0,1 ml

**Intended use:** For Research Use Only

**Reactivity:** Human

**Clone:** -

**Species of origin:** Rabbit

**Isotype:** IgG

**Control Tissue:** High-grade glioma

**Staining:** Nuclear

**Immunogen:** Synthetic peptide from human ATRX protein

**Presentation:** Purified antibody fraction from rabbit anti-serum with 0.2% BSA and 15mM sodium azide

### Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 50 mM Tris buffer pH9.5, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution 1:25-1:50)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-rabbit secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.