
ATRX

Rabbit Polyclonal Antibody

Specificity: Human

Immunogen: Synthetic peptide from human ATRX protein

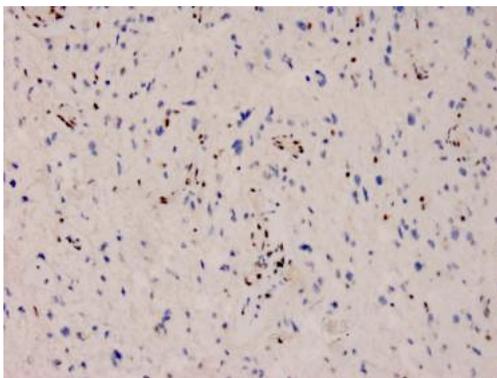
Ig Class: Rabbit IgG

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* For formalin-fixed tissues, optimal results are obtained by pretreating tissues with heat-induced epitope retrieval using high pH target retrieval solution. *Detection methods:* Polymer anti-mouse/rabbit IgG detection system. *Working dilution:* 1:25-50; *Positive Control:* High-grade glioma. *Cellular Localization:* Nuclear. *Intended Use:* In vitro diagnosis (IVD).

Description: 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.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



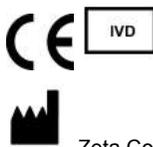
References:

1. Casar-Borota O, et al. *Am J Surg Pathol.* 2017; 41:1238-1246.
2. Liao JY, et al. *Am J Surg Pathol.* 2015; 39:236-44.

Formalin-fixed, paraffin-embedded human glioblastoma stained with anti-ATRX polyclonal antibody using peroxidase-conjugate and DAB chromogen. Note no nuclear staining of neoplastic cells (ATRX mutation)

Cat. #Z2283 (1.0 ml)

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