

Product Name: KD-Validated ATRX Mouse Monoclonal Antibody**Catalog #: KVA01941**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 282.6kDa

Antigen Information

Gene Name	ATRX
Alternative Names	ATRX; ATRX Chromatin Remodeler; XH2; XNP; Transcriptional Regulator ATRX; ATP-Dependent Helicase ATRX; X-Linked Nuclear Protein; X-Linked Helicase II; RAD54L; MRX52; RAD54; JMS; Alpha Thalassemia/Mental Retardation Syndrome X-Linked (RAD54 (S. Cerevisiae) Homolog); Alpha Thalassemia/Mental Retardation Syndrome X-Linked; Mental Retardation, X-Linked 52; RAD54 Homolog (S. Cerevisiae); Juberg-Marsidi Syndrome; EC 3.6.4.12; EC 3.6.1; ZNF-HX; Znf-HX
Gene ID	546.0
SwissProt ID	P46100
Immunogen	Recombinant protein of human ATRX

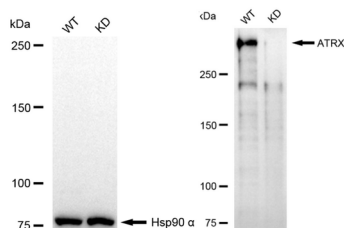
Background

The protein encoded by this gene contains an ATPase/helicase domain, and thus it belongs to the SWI/SNF family of chromatin remodeling proteins. This protein is found to undergo cell cycle-dependent phosphorylation, which regulates its nuclear matrix and chromatin association, and suggests its involvement in the gene regulation at interphase and chromosomal segregation in mitosis. Mutations in this gene are associated with X-linked syndromes exhibiting cognitive disabilities as well as alpha-thalassemia (ATRX) syndrome. These mutations have been shown to cause diverse changes in the pattern of DNA methylation, which may provide a link between chromatin remodeling, DNA methylation, and gene expression in developmental processes. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2017]

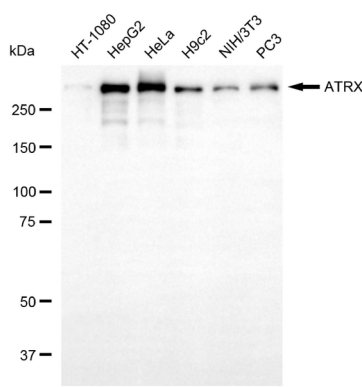
Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blotting analysis using ATRX antibody (KVA01941). ATRX expression in wild type (WT) and ATRX knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ATRX antibody (KVA01941, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using ATRX antibody (KVA01941). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ATRX antibody (KVA01941, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.