Anti-ATRX Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015841

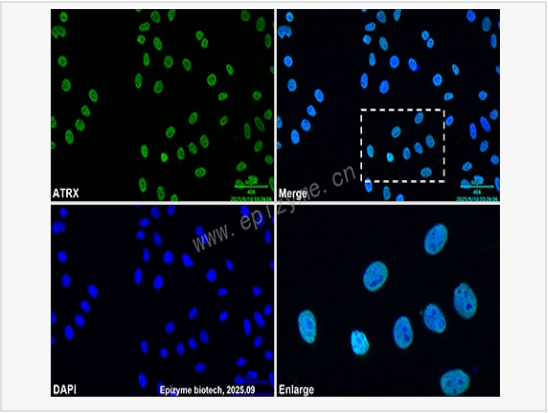
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	11G45T02
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein corresponding to the C-terminal of human ATRX
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ATRX Rabbit mAb [11G45T02] is for research use only and not for use in diagnostic or therapeutic procedures.

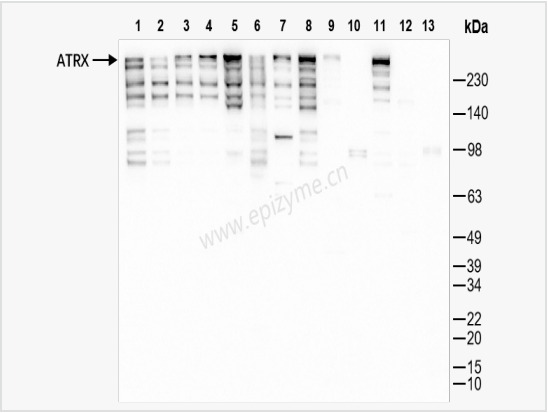
Protein Information

Synonyms	RAD54L; XH2; ATRX; Transcriptional regulator ATRX; ATP-dependent helicase ATRX; X-linked helicase II; X-linked nuclear protein; Znf-HX; XNP.
Calculated MW	Calculated MW: 282 kDa; Observed MW: 282 kDa
Uniprot ID	P46100
Gene ID	546
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]
Cellular Location	Nucleus.Chromosome.Telomere.Nucleus.PML body.Associated with pericentromeric heterochromatin during interphase and mitosis, probably by interacting with CBX5/HP1 alpha. Colocalizes with histone H3.3, DAXX, HIRA and ASF1A at PML-nuclear bodies. Colocalizes with cohesin (SMC1 and SMC3) and MECP2 at the maternal H19 ICR (By similarity).
Tissue Location	Ubiquitous.

Validation Images



Immunofluorescence - Anti-ATRX Rabbit mAb [11G45T02]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015841 at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green)
Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-ATRX Rabbit mAb [11G45T02]
All lanes: R015841 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: MCF-7 (human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 5: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 6: 293T (Human embryonic kidney cell) whole cell lysates
Lane 7: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 8: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 9: Mouse brain whole tissue lysates
Lane 10: Mouse liver whole tissue lysates
Lane 11: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 12: Rat brain whole tissue lysates
Lane 13: Rat liver whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 282 kDa
Observed band size: 282 kDa
Developed using the ECL technique (Cat. No. SQ201).