

Recombinant Human ATRX, GST-tagged

Cat. No. ATRX-10065H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATRX protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-87a.a.
Description	The protein encoded by this gene contains an ATPase/helicase domain, and thus it belongs to the SWI/SNF family of chromatin remodeling proteins. The mutations of this gene are associated with an X-linked mental retardation (XLMR) syndrome most often accompanied by 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. 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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM

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GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	ATRX alpha thalassemia/mental retardation syndrome X-linked [Homo sapiens]
Official Symbol	ATRX
Synonyms	ATRX; alpha thalassemia/mental retardation syndrome X-linked; alpha thalassemia/mental retardation syndrome X linked (RAD54 (S. cerevisiae) homolog) , JMS, Juberg Marsidi syndrome , RAD54; transcriptional regulator ATRX; RAD54 homolog (S. cerevisiae); XH2; XNP; RAD54 homolog; X-linked helicase II; Zinc finger helicase; helicase 2, X-linked; X-linked nuclear protein; ATP-dependent helicase ATRX; DNA dependent ATPase and helicase; alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae); JMS; SHS; ATR2; SFM1; RAD54; MRXHF1; RAD54L; ZNF-HX; MGC2094;
Gene ID	546
mRNA Refseq	NM_000489
Protein Refseq	NP_000480
MIM	300032
UniProt ID	P46100
Chromosome Location	Xq21.1
Function	ATP binding; DNA binding; DNA helicase activity; chromatin binding; chromo shadow

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domain binding; helicase activity; hydrolase activity; metal ion binding; nucleotide binding; protein binding; zinc ion binding;

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