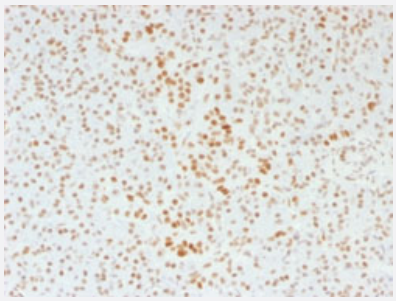
ATRX monoclonal antibody, clone 39f

Catalog # MAB14880 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human pancreas with ATRX monoclonal antibody, clone 39f (Cat # MAB14880).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human ATRX.
Immunogen	Recombinant protein corresponding to full length human ATRX.
Host	Mouse
Theoretical MW (kDa)	280
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Western Blotting (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.

Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human pancreas with ATRX monoclonal antibody, clone 39f (Cat # MAB14880).
- Immunofluorescence
- Flow Cytometry

Gene Info — ATRX

Entrez GeneID	546
Protein Accession#	P46100
Gene Name	ATRX
Gene Alias	ATR2, MGC2094, MRXHF1, RAD54, RAD54L, SFM1, SHS, XH2, XNP, ZNF-HX
Gene Description	alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae)
Omim ID	300032 300448 301040 309580
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene contains an ATPase/helicase domain, and thus it belongs to th e SWI/SNF family of chromatin remodeling proteins. The mutations of this gene are associated wi th an X-linked mental retardation (XLMR) syndrome most often accompanied by alpha-thalassemi a (ATRX) syndrome. These mutations have been shown to cause diverse changes in the pattern o f DNA methylation, which may provide a link between chromatin remodeling, DNA methylation, an d gene expression in developmental processes. This protein is found to undergo cell cycle-depen dent phosphorylation, which regulates its nuclear matrix and chromatin association, and suggests its involvement in the gene regulation at interphase and chromosomal segregation in mitosis. Mult iple alternatively spliced transcript variants encoding distinct isoforms have been reported. [provid ed by RefSeq
Other Designations	DNA dependent ATPase and helicase|OTTHUMP00000024265|OTTHUMP00000062079|X-link ed nuclear protein|Zinc finger helicase|helicase 2, X-linked|transcriptional regulator ATRX

Publication Reference

- Human cytomegalovirus protein pp71 displaces the chromatin-associated factor ATRX from nuclear domain 10 at early stages of infection.

  Lukashchuk V, McFarlane S, Everett RD, Preston CM.

  Journal of Virology 2008 Dec; 82(24):12543.

  Application: IF, WB-Ce, Human, HFFF2 cells

- Localization of a putative transcriptional regulator (ATRX) at pericentromeric heterochromatin and the short arms of acrocentric chromosomes.

  McDowell TL, Gibbons RJ, Sutherland H, O'Rourke DM, Bickmore WA, Pombo A, Turley H, Gatter K, Picketts DJ, Buckle VJ, Chapman L, Rhodes D, Higgs DR.

  PNAS 1999 Nov; 96(24):13983.

  Application: ELISA, IF, WB-Ce, Human, Mouse, HeLa, L929 cells, Human B lymphocytes

Disease

- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease