

AF-10 (N-18): sc-27083

BACKGROUND

The nuclear protein AF-10 is one of several conserved transcription factors involved in the t(10;11) translocation in acute myeloid leukemia. The open reading frame of human AF-10 contains 1,027 amino acids, which are 90% identical to those of the mouse homolog, which contains 1,061 amino acids. AF-10 is primarily expressed in testis and is highly similar to AF-17.

REFERENCES

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2. Silliman, C.C., et al. 1998. Alternative splicing in wild-type AF-10 and CALM cDNAs and in AF-10-CALM and CALM-AF-10 fusion cDNAs produced by the t(10;11)(p13-14;q14-q21) suggests a potential role for truncated AF-10 polypeptides. *Leukemia* 12: 1404-1410.
3. Roll, P., et al. 2002. Molecular and fluorescence *in situ* hybridization analysis of a 10;11 rearrangement in a case of infant acute monocytic leukemia. *Cancer Genet. Cytogenet.* 135: 187-191.
4. Nakamura, T., et al. 2002. ALL-1 is a histone methyltransferase that assembles a supercomplex of proteins involved in transcriptional regulation. *Mol. Cell* 10: 1119-1128.
5. Strausberg, R.L., et al. 2002. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc. Natl. Acad. Sci. USA* 99: 16899-16903.
6. Perrin, L., et al. 2003. The leucine zipper motif of the *Drosophila* AF-10 homologue can inhibit PRE-mediated repression: implications for leukemogenic activity of human MLL-AF-10 fusions. *Mol. Cell. Biol.* 23: 119-130.

CHROMOSOMAL LOCATION

Genetic locus: MLLT10 (human) mapping to 10p12.31; Mllt10 (mouse) mapping to 2 A3.

SOURCE

AF-10 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of AF-10 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-27083 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-27083 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

AF-10 (N-18) is recommended for detection of AF-10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

AF-10 (N-18) is also recommended for detection of AF-10 in additional species, including bovine and porcine.

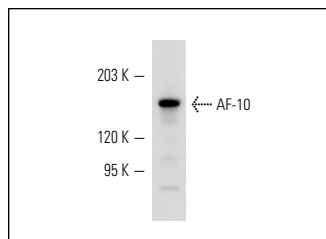
Suitable for use as control antibody for AF-10 siRNA (h): sc-43605, AF-10 siRNA (m): sc-140892, AF-10 shRNA Plasmid (h): sc-43605-SH, AF-10 shRNA Plasmid (m): sc-140892-SH, AF-10 shRNA (h) Lentiviral Particles: sc-43605-V and AF-10 shRNA (m) Lentiviral Particles: sc-140892-V.

AF-10 (N-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of AF-10: 140 kDa.

Positive Controls: mouse testis extract: sc-2405, K-562 whole cell lysate: sc-2203 and F9 cell lysate: sc-2245.

DATA



AF-10 (N-18): sc-27083. Western blot analysis of AF-10 expression in mouse testis tissue extract.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **AF-10 (HAF10 9A5/2): sc-53156** or **AF-10 (HAF10 10D3/8): sc-53155**, our highly recommended monoclonal alternatives to AF-10 (N-18).