

AFF4 (h): 293T Lysate: sc-114129

BACKGROUND

AFF4 (AF4/FMR2 family, member 4), also known as MCEF or AF5Q31, localizes to the nucleus and is a member of the AF4 family of transcription factors. Ubiquitously expressed with highest expression in placenta, heart, pancreas and skeletal muscle, AFF4 is a 1,163 amino acid component of the positive transcription elongation factor β (P-TEFb) complex that contains Cdk9 (cyclin-dependent kinase 9) and cyclin T1. AFF4 is thought to function as a transcription factor that positively regulates transcription during fetal development, as well as in adult tissue. Defects in the gene encoding AFF4 lead to expression of an MLL-AFF4 (myeloid/lymphoid or mixed-lineage leukemia-AFF4) fusion protein that is found in acute lymphoblastic leukemia (ALL), implicating AFF4 in the pathogenesis of ALL. Three isoforms of AFF4 are expressed due to alternative splicing events.

REFERENCES

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5. Niedzielski, M.F., Hopewell, R., Ismail, Z. and Estable, M.C. 2007. MCEF is localized to the nucleus by protein sequences encoded within three distinct exons, where it represses HIV-1 Tat-transactivation of LTR-directed transcription. *Int. J. Biol. Sci.* 3: 225-236.

CHROMOSOMAL LOCATION

Genetic locus: AFF4 (human) mapping to 5q31.1.

PRODUCT

AFF4 (h): 293T Lysate represents a lysate of human AFF4 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

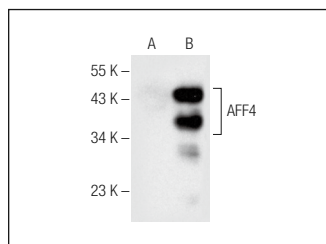
APPLICATIONS

AFF4 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive AFF4 antibodies. Recommended use: 10-20 μ l per lane.

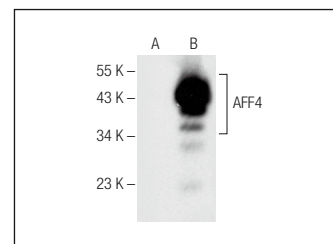
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

AFF4 (G-1): sc-390310 is recommended as a positive control antibody for Western Blot analysis of enhanced human AFF4 expression in AFF4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



AFF4 (G-1): sc-390310. Western blot analysis of AFF4 expression in non-transfected: sc-117752 (A) and human AFF4 transfected: sc-114129 (B) 293T whole cell lysates.



AFF4 (3D2): sc-101062. Western blot analysis of AFF4 expression in non-transfected: sc-117752 (A) and human AFF4 transfected: sc-114129 (B) 293T whole cell lysates.

RESEARCH USE

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