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-TEFβ) 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

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

SOURCE
AFF4 (G-1) is a mouse monoclonal antibody raised against amino acids 65-253 mapping near the N-terminus of AFF4 of human origin.

PRODUCT
Each vial contains 200 µg IgG1 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-390310 X, 200 µg/0.1 ml.

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

APPLICATIONS
AFF4 (G-1) is recommended for detection of AFF4 of human origin by Western Blotting (starting dilution 1:100, 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 1:30-1:300).

Suitable for use as control antibody for AFF4 siRNA (h): sc-91842, AFF4 shRNA Plasmid (h): sc-91842-SH and AFF4 shRNA (h) Lentiviral Particles: sc-91842-V.

AFF4 (G-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of AFF4: 127 kDa.
Positive Controls: AFF4 (h): 293T Lysate: sc-114129.

DATA

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