**AFF4 (G-1): sc-390310**

**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 b (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.

**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 1:30-1:3000).

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.

**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 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-390310 X, 200 µg/0.1 ml.

AFF4 (G-1) is available conjugated to agarose (sc-390310 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390310 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390310 PE), fluorescein (sc-390310 FITC), Alexa Fluor® 488 (sc-390310 AF488), Alexa Fluor® 546 (sc-390310 AF546), Alexa Fluor® 594 (sc-390310 AF594) or Alexa Fluor® 647 (sc-390310 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390310 AF680) or Alexa Fluor® 790 (sc-390310 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**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.

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