

Mouse anti-Human AFF4 Monoclonal Antibody | anti-AFF4 antibody

Anti-AFF4 Antibody (monoclonal, 8G12)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125931	Mouse	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AFF4; Monoclonal Antibody; Anti-AFF4 Antibody (monoclonal; 8G12); AF5Q31; MCEF; HSPC092; AF4/FMR2 family member 4; ALL1-fused gene from chromosome 5q31 protein; Protein AF-5q31; Major CDK9 elongation factor-associated protein
; anti-AFF4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	8G12
Specificity	Mouse IgG monoclonal antibody for AFF4 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-AFF4 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human AFF4(6-53aa RNVLRMKERERRNQEIQGEDAFPPSSPLFAEPYKVTSKEDKLSSRIQ), identical to the related mouse sequence.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of 293T cells using anti-AFF4 antibody (AAA125931).Overlay histogram showing 293T cells stained with AAA125931 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti- AFF4 Antibody (AAA125931, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of AFF4 using anti-AFF4 antibody (AAA125931).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HELA whole cell lysatesLane 2: human HEPG2 whole cell lysatesLane 3: human CACO-2 whole cell lysatesLane 4: human HEK293 whole cell lysatesLane 5: human MDA-MB-453 whole cell lysatesLane 6: human PANC-1 whole cell lysatesLane 7: human SW620 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with mouse anti- AFF4 antigen affinity purified monoclonal antibody (Catalog # AAA125931) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for AFF4 at approximately 150KD. The expected band size for AFF4 is at 150KD.

ADDITIONAL INFORMATION

Related Product Information for anti-AFF4 antibody	The AFF4 gene encodes a scaffold protein that functions as a core component of the super elongation complex (SEC), which is involved in transcriptional regulation during embryogenesis. The protein encoded by this gene belongs to the AF4 family of transcription factors involved in leukemia. It is a component of the positive transcription elongation factor b (P-TEFb) complex. This gene is mapped to chromosome 5q31.
References	1. Izumi, K., Nakato, R., Zhang, Z., Edmondson, A. C., Noon, S., Dulik, M. C., Rajagopalan, R., Venditti, C. P., Gripp, K., Samanich, J., Zackai, E. H., Deardorff, M. A., and 10 others. Germline gain-of-function mutations in AFF4 cause a developmental syndrome functionally linking the super elongation complex and cohesin. Nature Genet. 47: 338-344, 2015. 2. Taki, T., Kano, H., Taniwaki, M., Sako, M., Yanagisawa, M., Hayashi, Y. AF5q31, a newly identified AF4-related gene, is fused to MLL in infant acute lymphoblastic leukemia with ins(5;11)(q31;q31q23). Proc. Nat. Acad. Sci. 96: 14535-14540, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	74720814
NCBI GeneID	27125
UniProt Accession #	Q9UHB7; Q498B2; Q59FB3; Q6P592; Q8TDR1; Q9P0E4; B2RP19; B7WPD2
Molecular Weight	1163
NCBI Official Full Name	AF4/FMR2 family member 4
NCBI Official Synonym Full Names	AF4/FMR2 family, member 4
NCBI Official Symbol	AFF4
NCBI Official Synonym Symbols	MCEF; AF5Q31
NCBI Protein Information	AF4/FMR2 family member 4; ALL1-fused gene from chromosome 5q31 protein; major CDK9 elongation factor-associated protein
UniProt Protein Name	AF4/FMR2 family member 4
UniProt Gene Name	AFF4
UniProt Synonym Gene Names	AF5Q31; MCEF; Protein AF-5q31
UniProt Entry Name	AFF4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/aff4-antibody-clone-8g12-flow-cytometry-immunohistochemistry-western-blot-elisa/125931>