AFF4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AFF4, Polyclonal Antibody
Full Product Name	AFF4 Polyclonal Antibody
Product Gene Name	anti-AFF4 antibody
Product Synonym Names	AF4/FMR2 family member 4; ALL1-fused gene from chromosome 5q31 protein; Protein AF-5q31; Major CDK9 elongation factor-associated protein; AFF4; AF5Q31; MCEF; HSPC092
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	127
OMIM	604417
3D Structure	ModBase 3D Structure for Q9UHB7
Immunogen	Synthesized peptide derived from human protein. at AA range: 30-110
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AFF4 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-AFF4 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-AFF4 antibody	MBS8529757 is an antibody targeting AFF4. Also known as AFF4 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-AFF4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AFF4. It may not necessarily be applicable to this product.

NCBI GI #	7656879
NCBI GeneID	27125
NCBI Accession #	NP_055238.1
UniProt Primary Accession #	Q9UHB7
UniProt Secondary Accession #	Q498B2; Q59FB3; Q6P592; Q8TDR1; Q9P0E4; B2RP19; B7WPD2
UniProt Related Accession #	Q9UHB7

GenBank Nucleotide #	NM_014423.3
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; CHOPS; AF5Q31
UniProt Protein Name	AF4/FMR2 family member 4
UniProt Synonym Protein Names	ALL1-fused gene from chromosome 5q31 protein; Protein AF-5q31; Major CDK9 elongation factor-associated protein
Protein Family	AF4/FMR2 family
UniProt Gene Name	AFF4
UniProt Synonym Gene Names	AF5Q31; MCEF; Protein AF-5q31
NCBI Protein Information	AF4/FMR2 family member 4
NCBI Summary for AFF4	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. A chromosomal translocation involving this gene and MLL gene on chromosome 11 is found in infant acute lymphoblastic leukemia with ins(5;11)(q31;q31q23). [provided by RefSeq, Oct 2011]
UniProt Comments for AFF4	Key component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. In the SEC complex, AFF4 acts as a central scaffold that recruits other factors through direct interactions with ELL proteins (ELL, ELL2 or ELL3) and the P-TEFb complex. In case of infection by HIV-1 virus, the SEC complex is recruited by the viral Tat protein to stimulate viral gene expression.
Research Articles on AFF4	**1.** The TAR central loop contacts the CycT1 Tat-TAR recognition motif (TRM) and the second Tat Zn(2+)-binding loop. Hydrogen-deuterium exchange (HDX) shows that AFF4 helix 2 is stabilized in the TAR complex despite not touching the RNA, explaining how it enhances TAR binding to the SEC 50-fold.
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