AFF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AFF1, Polyclonal Antibody
Full Product Name	AFF1 Polyclonal Conjugated Antibody
Product Gene Name	anti-AFF1 antibody
Product Synonym Names	AFF1 Conjugated Antibody; AFF1; AF4; MLLT2; PBM1; AF4/FMR2 family member 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	131,422 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (87856154..88062206). Location: 4q21
OMIM	159557
3D Structure	ModBase 3D Structure for P51825
Immunogen	Recombinant fusion protein of human AFF1 (NP_001160165.1).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-AFF1 antibody	Most Applications
Application Notes for anti-AFF1 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-AFF1 antibody	This gene encodes a member of the AF4/ lymphoid nuclear protein related to AF4/Fragile X E mental retardation syndrome family of proteins, which have been implicated in childhood lymphoblastic leukemia, Fragile X E site mental retardation, and ataxia. It is the prevalent mixed-lineage leukemia fusion gene associated with spontaneous acute lymphoblastic leukemia. Members of this family have three conserved domains: an N-terminal homology domain, an AF4/ lymphoid nuclear protein related to AF4/Fragile X E mental retardation syndrome domain, and a C-terminal homology domain. The protein functions as a regulator of RNA polymerase II-mediated transcription through elongation and chromatin remodeling functions. Through RNA interference screens, this gene has been shown to promote the expression of CD133, a plasma membrane glycoprotein required for leukemia cell survival. Alternative splicing results in multiple transcript variants.

Other Notes	Small volumes of anti-AFF1 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.
Searchable Terms for AFF1 purchase	MBS9441936 is an antibody targeting AFF1. Also known as AFF1 Polyclonal Conjugated Antibody. Reactive in Human, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AFF1. It may not necessarily be applicable to this product.

NCBI GI #	262359911
NCBI GeneID	4299
NCBI Accession #	NP_001160165.1
UniProt Primary Accession #	P51825
UniProt Secondary Accession #	B4DTU1; E9PBM3
UniProt Related Accession #	P51825
GenBank Nucleotide #	NM_001166693.1
NCBI Official Full Name	AF4/FMR2 family member 1 isoform 1
NCBI Official Synonym Full Names	AF4/FMR2 family, member 1
NCBI Official Symbol	AFF1
NCBI Official Synonym Symbols	AF4; PBM1; MLLT2
UniProt Protein Name	AF4/FMR2 family member 1
UniProt Synonym Protein Names	ALL1-fused gene from chromosome 4 protein; Protein AF-4; Protein FEL; Proto-oncogene AF4
Protein Family	AF4/FMR2 family
UniProt Gene Name	AFF1
UniProt Synonym Gene Names	AF4; FEL; MLLT2; PBM1; Protein AF-4
UniProt Entry Name	AFF1_HUMAN
NCBI Protein Information	AF4/FMR2 family member 1; protein AF-4; proto-oncogene AF4; pre-B-cell monocytic leukemia partner 1; ALL1-fused gene from chromosome 4 protein; myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 2
UniProt Comments for AFF1	AF-4: A chromosomal aberration involving AFF1 is associated with acute leukemias. Translocation t(4;11)(q21;q23) with MLL/HRX. The result is a rogue activator protein. Belongs to the AF4 family. Protein type: Transcription factor; Oncoprotein Chromosomal Location of Human Ortholog: 4q21 Cellular Component: transcription elongation factor complex Molecular Function: protein binding; transcription factor activity Biological Process: positive regulation of transcription, DNA-dependent
Research Articles on AFF1	**1.** No association between AFF1 rs340630 and systemic lupus erythmatosus was found.

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