MLLT2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MLLT2, Polyclonal Antibody
Full Product Name	MLLT2, CT (T1196) (AFF1, AF4, FEL, MLLT2, PBM1, AF4/FMR2 family member 1, ALL1-fused gene from chromosome 4 protein, Protein FEL, Proto-oncogene AF4) (MaxLight 650)
Product Gene Name	anti-MLLT2 antibody
Product Synonym Gene Name	AFF1
Product Synonym Names	AFF1; AF4; FEL; MLLT2; PBM1; AF4/FMR2 family member 1; ALL1-fused gene from chromosome 4 protein; Protein FEL; Proto-oncogene AF4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	159557
3D Structure	ModBase 3D Structure for P51825
Immunogen	MLLT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1180-1210 amino acids from the C-terminal region of human MLLT2.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-MLLT2 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-MLLT2 antibody	Western Blot (WB), FLISA
Application Notes for anti-MLLT2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MLLT2 antibody	MaxLight650 is a new Far-IR stable dye conjugate comparable to Alexa Fluor647, DyLight649, Cy5 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (655nm); Emission (676nm); Extinction Coefficient 250,000.
Product References and Citations for anti-MLLT2 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). Krivtsov, A.V., et al. Cancer Cell 14(5):355-368(2008). Bizarro, S., et al. Cancer Genet. Cytogenet. 178(1):61-64(2007).

Other Notes	Small volumes of anti-MLLT2 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 MLLT2 purchase	MBS6321171 is an antibody targeting MLLT2. Also known as MLLT2, CT (T1196) (AFF1, AF4, FEL, MLLT2, PBM1, AF4/FMR2 family member 1, ALL1-fused gene from chromosome 4 protein, Protein FEL, Proto-oncogene AF4) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MLLT2. It may not necessarily be applicable to this product.

NCBI GI #	5174573
NCBI GeneID	4299
NCBI Accession #	NP_005926
UniProt Primary Accession #	P51825
UniProt Related Accession #	P51825
GenBank Nucleotide #	NP_005926.1
NCBI Official Full Name	AF4/FMR2 family member 1 isoform 2
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
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
NCBI Summary for MLLT2	This gene encodes a member of the AF4/ lymphoid nuclear protein related to the Fragile X E syndrome (FRAXE) family of proteins, which have been implicated in human childhood lymphoblastic leukemia, fragile chromosome X intellectual disability, 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 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. [provided by RefSeq, Jul 2017]
UniProt Comments for MLLT2	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 MLLT2	**1.** the scaffold protein 14-3-3theta; enhances the aberrant activity of the chimeric transcription factor MLL-AF4 and, therefore, represents a new player in the molecular pathogenesis of t(4;11)-positive leukemia
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