MLLT10 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MLLT10, Monoclonal Antibody
Full Product Name	MLLT10 (Myeloid/Lymphoid or Mixed-Lineage Leukemia (Trithorax Homolog, Drosophila); Translocated to, 10, AF10, DKFZp686E10210, MGC75086) (MaxLight 750)
Product Gene Name	anti-MLLT10 antibody
Product Synonym Names	Myeloid/Lymphoid or Mixed-Lineage Leukemia (Trithorax Homolog; Drosophila); Translocated to; 10; AF10; DKFZp686E10210; MGC75086
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2B9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes MLLT10.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	20,047 Da
OMIM	602409
3D Structure	ModBase 3D Structure for P55197
Immunogen	MLLT10 (NP_001009569, 695aa-793aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	QIRYDQPGNSSLENLPPVAASIEQLLERQWSEGQQFLLEQGTPSDILGMLKSLHQLQVENRRLEEQIKNLTAKKERLQLLNAQLSVPFPTITANPSPSH
Conjugate	MaxLight750
Product Categories/Family for anti-MLLT10 antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-MLLT10 antibody	Western Blot (WB)
Application Notes for anti-MLLT10 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MLLT10 antibody	MBS6239429 is an antibody targeting MLLT10. Also known as MLLT10 (Myeloid/Lymphoid or Mixed-Lineage Leukemia (Trithorax Homolog, Drosophila); Translocated to, 10, AF10, DKFZp686E10210, MGC75086) (MaxLight 750). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant MLLT10.

Other Notes	Small volumes of anti-MLLT10 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 MLLT10. It may not necessarily be applicable to this product.

NCBI GI #	57546899
NCBI GeneID	8028
NCBI Accession #	NP_001009569
UniProt Primary Accession #	P55197
UniProt Secondary Accession #	Q5JT37; Q5VX90; Q66K63; B1ANA8
UniProt Related Accession #	P55197
GenBank Nucleotide #	NM_001009569
NCBI Official Synonym Full Names	MLLT10 histone lysine methyltransferase DOT1L cofactor
NCBI Official Symbol	MLLT10
NCBI Official Synonym Symbols	AF10
UniProt Protein Name	Protein AF-10
UniProt Synonym Protein Names	ALL1-fused gene from chromosome 10 protein
Protein Family	Protein
UniProt Gene Name	MLLT10
UniProt Synonym Gene Names	AF10
UniProt Entry Name	AF10_HUMAN
NCBI Protein Information	protein AF-10
NCBI Summary for MLLT10	This gene encodes a transcription factor and has been identified as a partner gene involved in several chromosomal rearrangements resulting in various leukemias. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2010]
UniProt Comments for MLLT10	MLLT10: Probably involved in transcriptional regulation. In vitro or as fusion protein with MLL has transactivation activity. Binds to cruciform DNA. A chromosomal aberration involving MLLT10 is associated with acute leukemias. Translocation t(10;11)(p12;q23) with MLL/HRX. The result is a rogue activator protein. A chromosomal aberration involving MLLT10 is associated with diffuse histiocytic lymphomas. Translocation t(10;11)(p13;q14) with PICALM. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oncoprotein; Transcription factor Chromosomal Location of Human Ortholog: 10p12 Cellular Component: nucleoplasm; cytoplasm Molecular Function: protein binding; DNA binding; zinc ion binding; transcription factor activity Biological Process: transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter Disease: Leukemia, Acute Myeloid
Research Articles on MLLT10	**1.** the oligomerization ability of the DOT1L-AF10 complex is essential for MLL1-AF10's leukemogenic function

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