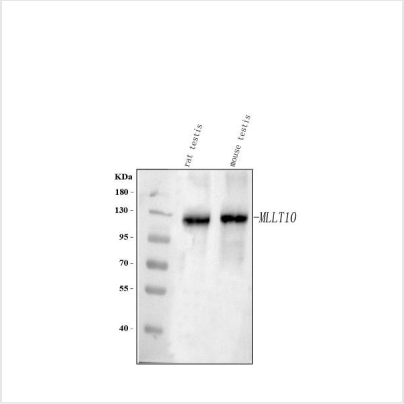
MLLT10 Antibody – Rabbit Polyclonal

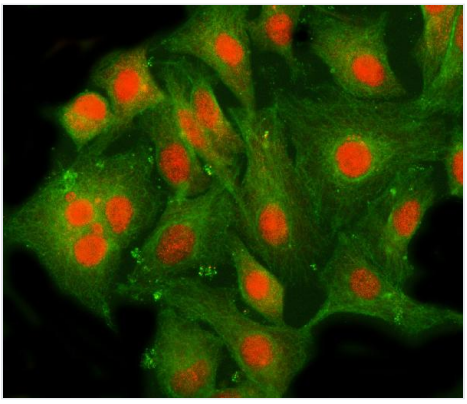
PRODUCT OVERVIEW

Product Name	MLLT10, Polyclonal Antibody
Full Product Name	Anti-MLLT10 Antibody Picoband
Product Gene Name	anti-MLLT10 antibody
Product Synonym Names	Integrin alpha-L; Integrin alpha-L; CD11 antigen-like family member A; Leukocyte adhesion glycoprotein LFA-1 alpha chain; LFA-1A; Leukocyte function-associated molecule 1 alpha chain; CD11a; ITGAL; CD11A
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Leukocytes.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	109,026 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (21823101..22032559). Location: 10p12
OMIM	602409
3D Structure	ModBase 3D Structure for P55197
Immunogen	E coli-derived human MLLT10 recombinant protein (Position: E541-S1068).
Subcellular Localization	Membrane, Single-pass type I membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. It is involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes.
Product Categories/Family for anti-MLLT10 antibody	Primary Antibodies; Cell Adhesion; Cell Type Markers; Cytoskeleton/ECM; Hematopoietic Progenitors; Immunology; Integrins; Myeloid; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MLLT10 antibody	ELISA (EIA), Immunocytochemistry (ICC), Immunofluorescence (IF), Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-MLLT10 antibody	WB: 0.25-0.5ug/ml, Mouse, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml

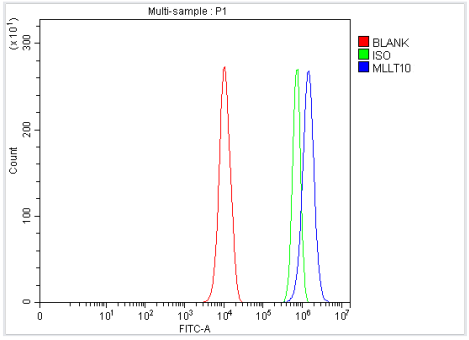
Related Product Information for anti-MLLT10 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-MLLT10 antibody	1. Aita, N., Ishii, K., Akamatsu, Y., Ogasawara, Y., Tanabe, S. Cloning and expression of human liver rhodanese cDNA. Biochem. Biophys. Res. Commun. 231: 56-60, 1997.2. Billaut-Laden, I., Rat, E., Allorge, D., Crunelle-Thibaut, A., Cauffiez, C., Chevalier, D., Lo-Guidice, J.-M., Broly, F. Evidence for a functional genetic polymorphism of the human mercaptopyruvate sulfurtransferase (MPST), a cyanide detoxification enzyme. Toxicol. Lett. 165: 101-111, 2006. 3. Hartz, P. A. Personal Communication. Baltimore, Md. 12/8/2009.
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.
Searchable Terms for MLLT10 purchase	MBS1758491 is an antibody targeting MLLT10. Also known as Anti-MLLT10 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MLLT10 antibody
Figure 1. Western blot analysis of MLLT10 using anti-MLLT10 antibody (MBS1758491).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 30 ug of sample under reducing conditions.Lane 1: rat testis tissue lysates,Lane 2: mouse testis tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MLLT10 antigen affinity purified polyclonal antibody (#MBS1758491) at 0.5ug/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-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for MLLT10 at approximately 130 kDa. The expected band size for MLLT10 is at 113 kDa.



Immunofluorescence (IF) of anti-MLLT10 antibody
Figure 2. IF analysis of MLLT10 using anti-MLLT10 antibody (MBS1758491) and anti-Beta Tubulin antibody (M01857-3).MLLT10 was detected in immunocytochemical section of A549 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-MLLT10 Antibody (MBS1758491) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry (FC/FACS) of anti-MLLT10 antibody
Figure 3. Flow Cytometry analysis of PC-3 cells using anti-MLLT10 antibody (MBS1758491).Overlay histogram showing PC-3 cells stained with MBS1758491 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MLLT10 Antibody (MBS1758491, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MLLT10. It may not necessarily be applicable to this product.

NCBI GI #	307548834
NCBI GeneID	8028
NCBI Accession #	NP_001182556.1
UniProt Primary Accession #	P55197
UniProt Secondary Accession #	Q5JT37; Q66K63; B1ANA8
UniProt Related Accession #	P55197
GenBank Nucleotide #	NM_001195627.1
NCBI Official Full Name	protein AF-10 isoform d
NCBI Official Synonym Full Names	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10
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; type I AF10 protein; type IV AF10 protein; type III AF10 protein; ALL1-fused gene from chromosome 10 protein
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.** results strongly indicate that the differential regulation of these three genes is not due to the break point effect but as a consequence of the CALM/AF10 fusion gene expression, though the mechanism of regulation is not well understood

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