

For Research Use Only

MLLT3/AF9 Polyclonal antibody

Catalog Number: 12825-1-AP



Basic Information

Catalog Number: 12825-1-AP	GenBank Accession Number: BC036089	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 4300	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: P42568	
Isotype: IgG	Full Name: myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	
Immunogen Catalog Number: AG3528	Calculated MW: 568 aa, 63 kDa	
	Observed MW: 63-70 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB: Jurkat cells, HL-60 cells
Species Specificity: human, mouse, rat	

Background Information

MLLT3, also named as AF9, YEATS3, is a 568 amino acid protein, which is a component of the superelongation complex6 and co-operates with DOT1L, which di/trimethylates H3K79 to promote transcription. MLLT3 localizes to active transcription start sites (TSSs) through the YEATS domain, which recognizes active histone marks such as H3K9 acetylation and crotonylation. A truncated MLLT3 that lacks the YEATS domain forms a leukaemic fusion protein with the N terminus of MLL1, which misdirects MLLT3-interacting complexes to induce aberrant gene transcription. MLLT3 also regulates erythroid or megakaryocytic progenitors and was identified as a definitive HSC hub gene during mouse development. Researcher found that the expression of a gene called MLLT3 was closely correlated with blood stem cells' potential to self-renew and that the protein generated by the MLLT3 gene provides blood stem cells with the instructions necessary to maintain its ability to self-renew. It does this by working with other regulatory proteins to keep important parts of the blood stem cell's machinery operational as the cells divide.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

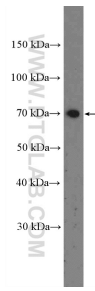
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Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 12825-1-AP (MLLT3/AF9) antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.