

For Research Use Only

Biotin-conjugated MLLT3/AF9 Polyclonal antibody

Catalog Number: Biotin-12825



Basic Information

Catalog Number:

Biotin-12825

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3528

GenBank Accession Number:

BC036089

GeneID (NCBI):

4300

UNIPROT ID:

P42568

Full Name:

myeloid/lymphoid or mixed-lineage
leukemia (trithorax homolog,
Drosophila); translocated to, 3

Calculated MW:

568 aa, 63 kDa

Observed MW:

63-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

FC (Intra): 0.25 ug per 10⁶ cells in a
100 µl suspension

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

FC (Intra): Jurkat cells,

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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

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

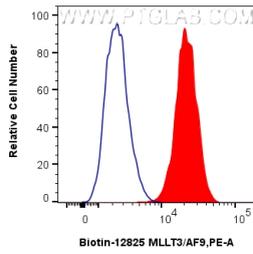
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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Selected Validation Data



1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug MLLT3/AF9 Polyclonal antibody (Biotin-12825) and Streptavidin-PE Conjugate (PE-PF00030)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).