Datasheet for ABIN7269603

anti-AF9 antibody (AA 1-150)

1 Image

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Overview

Quantity:	100 µL
Target:	AF9 (MLLT3)
Binding Specificity:	AA 1-150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AF9 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	MLLT3/AF9 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-150 of human MLLT3/AF9 (NP_004520.2).
Sequence:	MASSCAVQVK LELGHRAQVR KKPTVEGFTH DWMVFVRGPE HSNIQHFVEK VVFHLHESFP RPKRVCKDPP YKVEESGYAG FILPIEVYFK NKEEPRKVRF DYDLFLHLEG HPPVNHLRCE KLTFNNPTED FRRKLLKAGG DPNRSIHTSS
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	AF9 (MLLT3)
Alternative Name:	MLLT3 (MLLT3 Products)
Background:	Chromatin reader component of the super elongation complex (SEC, a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. Specifically recognizes and binds acylated histone H3, with a preference for histone H3 that is crotonylated. Crotonylation marks active promoters and enhancers and confers resistance to transcriptional repressors. Recognizes and binds histone H3 crotonylated at 'Lys-9' (H3K9cr, and with slightly lower affinity histone H3 crotonylated at 'Lys-18' (H3K18cr. Also recognizes and binds histone H3 acetylated and butyrylated at 'Lys-9' (H3K9ac and H3K9bu, respectively, but with lower affinity than crotonylated histone H3. In the SEC complex, MLLT3 is required to recruit the complex to crotonylated histones. Recruitment of the SEC complex to crotonylated histones promotes recruitment of DOT1L on active chromatin to deposit histone H3 'Lys-79' methylation (H3K79me. Plays a key role in hematopoietic stem cell (HSC maintenance by preserving, rather than confering, HSC stemness. Acts by binding to the transcription start site of active genes in HSCs and sustaining level of H3K79me2, probably by recruiting DOT1L.,MLLT3,AF9,YEATS3,Epigenetics & Nuclear Signaling,Cancer,MLLT3
Molecular Weight:	63kDa
Gene ID:	4300
UniProt:	P42568

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

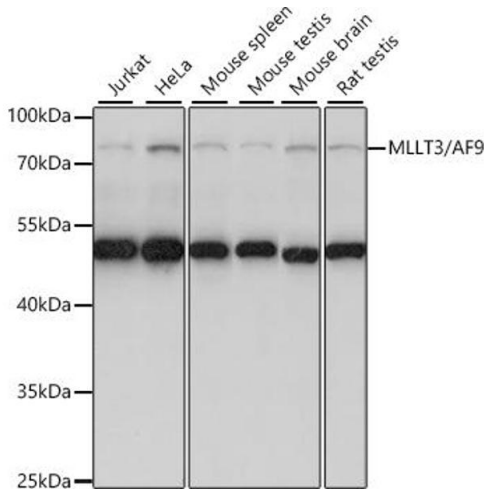
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using MLLT3/ antibody (ABIN7269603) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 30s.