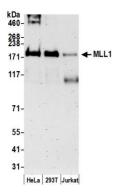
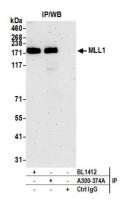
## **MLL1** Antibody

Rabbit Polycl	onal				Com Com
Antigen Affinity Purified		ed F	Protein ID	Q03164	
Catalog No. A300–374A		374A (	GenelD	4297	
Lot No.	A300-	74A-5			LABORATORIES, INC
APPLICATIONS		WB, IP, ChIP, ChIP-chip			
SPECIES REACTIVITY		Human			
PRESUMED REACTIVITY		Based on 100% sequence identity, this antibody is predicted to react with Mouse			
AMOUNT		100 µl			
CONCENTRATION		1000 μg/ml			
STORAGE/SHELF LIFE		2 – 8° C / 1 year from date of receipt			
PHYSICAL STATE		Liquid			
BUFFER		Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide			
ISOTYPE		lgG			
ORIGIN		USA			
PRODUCTION PROCEDURES		Antibody was affinity purified using an epitope specific to MLL1 immobilized on solid support.			
APPLICATIONS		The epitope recognized by A300-374A maps to a region between residues 2725 and 2775 of human myeloid/lymphoid or mixed-lineage leukemia 1 using the number given in Swiss-Prot entry Q03164 (GeneID 4297). The epitope is found in the C-terminal 180 kDa fragment generated by proteolytic cleavage. The epitope is found in isoform 14P-18B of MLL1.			
		Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.			
		Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.			
		Western Blot	1:2	,000 - 1:10,000	
		Immunoprecipita	tion 2 -	5 µg/mg lysate	
		ChIP		5 μg. Previous lots of this blication.	antibody have performed in this
		ChIP-chip		μg. Previous lots of this ar plication.	ntibody have performed in this
APPLICATION NOTES		Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 3-8% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).			
ADDITIONAL INFO		Western blot of lysates performed using standard western blot reagents and 3-8% SDS-PAGE.			
		https://www.bethyl.com/product/A300–374A			
		Use the link above to view SDS, a current list of citations, and other product specific information. IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB			
This docume	ant cartifia	s that this product	has met all (	of the quality control stand	lards defined by Bethyl Laboratories. Inc

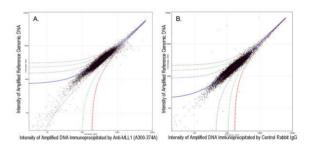
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc. Eric McIntush, PhD | Chief Scientific Officer Date: June 21, 2019



Detection of human MLL1 by western blot. Samples: Whole cell lysate (50  $\mu$ g) from HeLa, HEK293T, and Jurkat cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-MLL1 antibody A300-374A (lot A300-374A-5) used for WB at 0.1  $\mu$ g/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Detection of human MLL1 by western blot of immunoprecipitates. *Samples:* Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-MLL1 antibody A300-374A (lot A300-374A-5) used for IP at 3 µg per reaction. MLL1 was also immunoprecipitated by rabbit anti-MLL1 antibody BL1412. For blotting immunoprecipitated MLL1, A300-374A was used at 1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 3 minutes.



ChIP-chip scatter plot of anti-MLL1 (A300-374A) enriched DNA binding sites versus input reference DNA. A. 10 µg of A300-374A was used to immunoprecipitate chromatin from K-562 cells according to Ren et al (Genes Dev. 2002 16: 245-256). immunoprecipitatesd DNA and reference DNA were amplified via ligation-mediated PCR and the products labeled with fluorescent dUTPs. The labeled ChIP and reference DNA were pooled, hybridized to a DNA microarray, and analyzed. Data points below the +3 SD curve (red line) represent significantly enriched binding sites. B. As a control, a similar experiment was performed using normal rabbit IgG. Compared to the anti-MLL1 ChIP, normal rabbit IgG showed little enrichment.

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