

MLL1 polyclonal antibody

Other names: KMT2A, ALL1, CXXC7, TRX1, MLL, HRX, HTRX, HTRX1, WDSTS

Cat. No. C15310264

Type: Polyclonal ChIP-grade / ChIP-seq grade

Source: Rabbit

Lot #: A1542-001

Size: 100 µl

Concentration: Not determined

Specificity: Human: positive. Other species: not tested.

Purity: Whole antiserum from rabbit containing 0.05% azide.

Storage: Store at -20°C; for long storage, store at -80°C.
Avoid multiple freeze-thaw cycles.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Description: Polyclonal antibody raised in rabbit against human MLL1 (Mixed-Lineage Leukemia) using two KLH-conjugated synthetic peptides containing a sequence from the central region of the protein.

Applications

	Suggested dilution	Results
ChIP	2 µl/ChIP	Fig 1, 2
ELISA	1:100 - 1:1,000	Fig 3

*Please note that the optimal antibody amount per ChIP should be determined by the end-user. We recommend testing 1-10 µl per IP. Target description

Target description

MLL1 (UniProtKB/Swiss-Prot entry Q03164) functions as a lysine methyltransferase responsible for the methylation of H3K4 which is associated with epigenetic transcriptional activation. MLL1 regulates the transcription of specific target genes, including many of the HOX genes and plays an essential role in regulating gene expression during early development and hematopoiesis. It also plays a role in the control of circadian gene expression. MLL1 is involved in several translocations which cause certain acute lymphoid leukemias and acute myeloid leukemias.

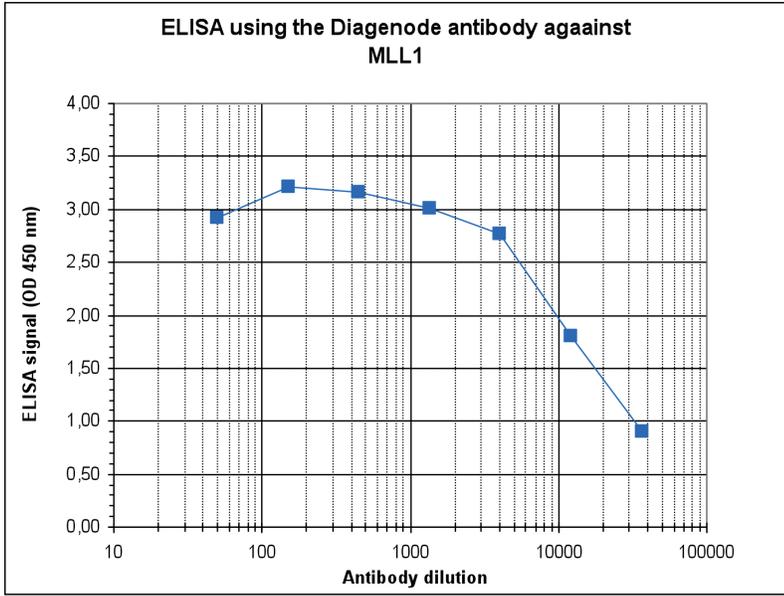


Figure 3. Determination of the antibody titer

To determine the titer of the antibody, an ELISA was performed using a serial dilution of the Diagenode antibody directed against MLL1 (Cat. No. C15310264). The plates were coated with the peptides used for immunization of the rabbit. By plotting the absorbance against the antibody dilution (Figure 3), the titer of the antibody was estimated to be 1:15,100.

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