



# myeloid/lymphoid or mixed-lineage leukemia 2 (MLL2) polyclonal antibody

Cat. No.	Format	Size
PAB-10846	Purified	100 µg

**Animal ID:**

RB1919/1920

**Host:**

Rabbit

**Reactivity:**

human

**Buffers:**

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

**Storage:**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

**Application:**

Tested by peptide-specific ELISA (1:1,000).

**Immunogen:**

KLH conjugated synthetic peptide comprised of amino acids 4720 - 4735 [TIQKGSGRQEDEREVC] of the human myeloid/lymphoid or mixed-lineage leukemia 2 (MLL2) protein.

**Accession number:**

[NM\\_003482](#)

**Description:**

Recurring chromosomal translocations involving chromosome 12q12-q14, have been observed in multiple human cancers. The gene that is targeted by these translocations is called [myeloid/lymphoid or mixed-lineage leukemia 2 \(MLL2\)](#) and it is highly related to MLL which involves chromosomal translocation with at least 34 partner genes, including AF4, AF9, ENL, CBL, LARG, LPP, GMPS, FBP17 and gephyrin, to name just a few. Like MLL, MLL2 is a nuclear protein which contains a SET (suppressor of variegation, enhancer of zeste, and trithorax) domain, characteristic for histone H3 lysine-4-specific methyltransferases, five PHD fingers, multiple potential zinc fingers, and a very long run of glutamines interrupted by hydrophobic residues, mostly leucine. MLL2 is a member of the trithorax group (trx-G) proteins which together with the polycomb group (Pc-G) proteins act as positive and negative regulators, respectively, to determine the body structure in *Drosophila*. The MLL2 protein is 5262 amino acids long and is expressed in most adult tissues, including a variety of hematopoietic cells, with the exception of the liver. MLL2 is likely to play a similar role to MLL and TRX, although its target genes have yet to be identified.

**Alternative Name(s):**

ALR, ALL1-related gene

## References:

1. [Karlin S, Chen C, Gentles AJ, Cleary M](#): Associations between human disease genes and overlapping gene groups and multiple amino acid runs. *Proc. Natl. Acad. Sci. U S A* 99(26): 17008-17013 (2002).
2. [Karlin S, Brocchieri L, Bergman A, Mrazek J, Gentles AJ](#): Amino acid runs in eukaryotic proteomes and disease associations. *Proc. Natl. Acad. Sci. U S A* 99(1): 333-338 (2002).
3. [Prasad R, Zhadanov AB, Sedkov Y, Bullrich F, Druck T, Rallapalli R, Yano T, Alder H, Croce CM, Huebner K, Mazo A, Canaani E](#): Structure and expression pattern of human ALR, a novel gene with strong homology to ALL-1 involved in acute leukemia and to *Drosophila trithorax*. *Oncogene* 15(5): 549-560 (1997).

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