

**MLL3 Blocking Peptide (C-term)**  
**Synthetic peptide**  
**Catalog # BP22080b****Specification**

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**MLL3 Blocking Peptide (C-term) - Product Information**Primary Accession [Q8NEZ4](#)**MLL3 Blocking Peptide (C-term) - Additional Information****Gene ID** 58508**Other Names**

Histone-lysine N-methyltransferase 2C, Lysine N-methyltransferase 2C, 2.1.1.43, Homologous to ALR protein, Myeloid/lymphoid or mixed-lineage leukemia protein 3, KMT2C, HALR, KIAA1506, MLL3

**Target/Specificity**

The synthetic peptide sequence is selected from aa 3804-3818 of HUMAN KMT2C

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

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

**Precautions**

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

**MLL3 Blocking Peptide (C-term) - Protein Information****Name** KMT2C**Synonyms** HALR, KIAA1506, MLL3**Function**

Histone methyltransferase that catalyzes methyl group transfer from S-adenosyl-L-methionine to the epsilon-amino group of 'Lys-4' of histone H3 (H3K4) (PubMed: [25561738](http://www.uniprot.org/citations/25561738)). Part of chromatin remodeling machinery predominantly forms H3K4me1 methylation marks at active chromatin sites where transcription and DNA repair take place (PubMed: [22266653](http://www.uniprot.org/citations/22266653), PubMed: [24081332](http://www.uniprot.org/citations/24081332), PubMed: [25561738](http://www.uniprot.org/citations/25561738)). Likely plays a redundant role with KMT2D in enriching H3K4me1 mark on primed and active enhancer elements (PubMed: [24081332](http://www.uniprot.org/citations/24081332)).

**Cellular Location**

Nucleus.

**Tissue Location**

Highly expressed in testis and ovary, followed by brain and liver. Also expressed in placenta, peripheral blood, fetal thymus, heart, lung and kidney. Within brain, expression was highest in hippocampus, caudate nucleus, and substantia nigra. Not detected in skeletal muscle and fetal liver

**MLL3 Blocking Peptide (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**MLL3 Blocking Peptide (C-term) - Images****MLL3 Blocking Peptide (C-term) - Background**

Histone methyltransferase. Methylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Central component of the MLL2/3 complex, a coactivator complex of nuclear receptors, involved in transcriptional coactivation. KMT2C/MLL3 may be a catalytic subunit of this complex. May be involved in leukemogenesis and developmental disorder.

**MLL3 Blocking Peptide (C-term) - References**

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Tan Y.C.,et al.Cancer Detect. Prev. 25:454-469(2001).  
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