

Recombinant Human KMT2B Protein, GST tagged

Cat. No. KMT2B-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The peptide corresponding to amino acids 2551 - 2715 of the KMT2B (MLL4)-SET protein (accession number NP_055542.1) was expressed in E. coli. The peptide contains the SET domain of MLL4 that is responsible for methyltransferase activity. Recombinant KMT2B (MLL4)-SET contains an N-terminal GST-Tag with a molecular weight of 45.2 kDa.
Species	Human
Source	E.coli
ProteinLength	2551-2715 aa
Description	This gene encodes a protein which contains multiple domains including a CXXC zinc finger, three PHD zinc fingers, two FY-rich domains, and a SET (suppressor of variegation, enhancer of zeste, and trithorax) domain. The SET domain is a conserved C-terminal domain that characterizes proteins of the MLL (mixed-lineage leukemia) family. This gene is ubiquitously expressed in adult tissues. It is also amplified in solid tumor cell lines, and may be involved in human cancer. Two alternatively spliced transcript variants encoding distinct isoforms have been reported for this gene, however, the full length nature of the shorter transcript is not known.
Form	Supplied in 25 mM Tris pH 8.0, 300 mM NaCl, 5% glycerol, 0.04% Triton X-100.
Molecular Mass	45.2 kDa

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Applications	Recombinant KMT2B (MLL4)-SET is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

GENE INFORMATION

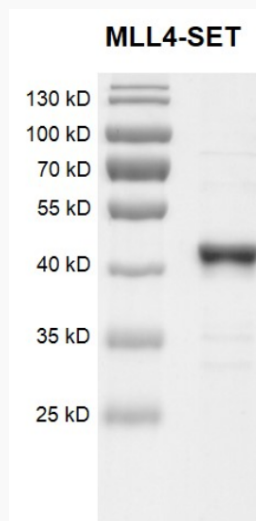
Gene Name	KMT2B lysine methyltransferase 2B [Homo sapiens (human)]
Official Symbol	KMT2B
Synonyms	KMT2B; lysine methyltransferase 2B; HRX2; MLL2; MLL4; TRX2; WBP7; DYT28; MLL1B; MRD68; WBP-7; CXXC10; histone-lysine N-methyltransferase 2B; W domain binding protein 7; histone-lysine N-methyltransferase MLL4; lysine (K)-specific methyltransferase 2B; mixed lineage leukemia gene homolog 2; myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila) 4; myeloid/lymphoid or mixed-lineage leukemia protein 4; trithorax homologue 2; EC 2.1.1.364
Gene ID	9757
mRNA Refseq	NM_014727
Protein Refseq	NP_055542
MIM	606834
UniProt ID	Q9UMN6

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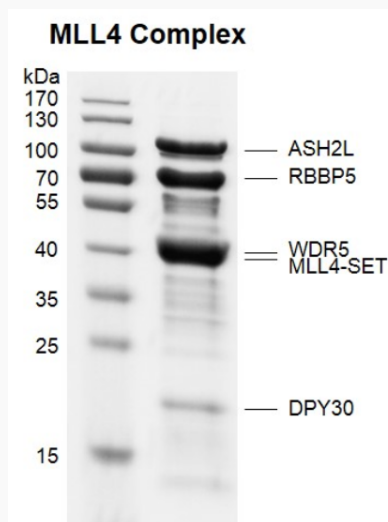
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SDS-PAGE



Recombinant KMT2B (MLL4)-SET protein gel. KMT2B (MLL4)-SET protein was run on a 10% SDS-PAGE gel and stained with Coomassie Blue.

SDS-PAGE



Recombinant KMT2B (MLL4)-SET protein gel. KMT2B (MLL4)-SET was incubated 4 equimolar components of the MLL4 complex (ASH2L, RBBP5, WDR5 and DPY30)

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for 2 hours at 4 centigrade. All the components were pulled down by GST beads.
The sample was run on an 10% SDS-PAGE gel and stained with Coomassie Blue.

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