Table S1. Primer sequences used in this study

	Forward primer (5’-3’)	Reverse primer (5’-3’)	Size (bp)
18S rRNA	CAGCCACCCGAGATTGAGCA	TAGTAGCGACGGGCGGTGTG	252
human DOT1L	CCAACACGAGTGTTATATTTGTGAA	TGAGTTTTGGGTTTTTCAGACTAGA	306
Rat DOT1L	GTCCTGTGTGCCACCAGATG	AGACAGCTTCTCCAGCCGAG	313
Cyclin D1	GCGCAGACCTTCGTTGCCCT	GCGCAGGCTTGACTCCAGCA	237
Cyclin E1	TGGCCAAAATCGACAGGACGGC	TGGCTGCAGAAGAGGGTGTTGC	290
Cyclin A2	TCGGCGCTGCTAGCATTGCA	AAGCCAGGGCATCTTCACGCT	337
Cyclin B1	CAACATGGCAGGCGCAAAGC	TGGCACTGGCACCAGCATAGG	223
$p15^{INK4B}$	TGCGCGAGGAGAACAAGGGCAT	TGTGCGCAGGTACCCTGCAA	401
$p18^{INK4C}$	TTGGGGGAACGAGTTGGCGT	AGCCCCGTTTGCCTGCATCA	472
$p19^{INK4D}$	ACGGCGCTGCAGGTCATGAT	ACCATGTGGCCCTGCAGGAT	359
$p21^{CIP/WAF1}$	AGTGGACAGCGAGCAGCTG	AGCCGGCGTTTGGAGTGGTAG	399
$p27^{KIP1}$	CGTGCGAGTGTCTAACGGGA	TTCCTGCGCATTGCTCCGCT	443
$p57^{KIP2}$	AACGGCGCGGCGATCAAGAA	CTCTTGCGCGGGGTCTGCTC	164

FIGURE S1. DOT1 deficiency upregulates p21 expression. A549 cells were transfected with control or DOT1L siRNA-b or c. The levels of p21 were measured by RT-PCR.

FIGURE S2. The mRNA levels of DOT1L and GAPDH were measured by RT-PCR in lung tissues of young and old SD rats. The relative levels of DOT1L mRNA are shown as a scatter plot in a right panel. Means for each group are shown as a bar.

FIGURE S3. The mRNA levels of DOT1L and 18S were measured by RT-PCR in normal (N) and tumor (T) tissues of lung cancer patients. The relative levels of DOT1L mRNA are shown as a scatter plot in a right panel. Means for each group are shown as a bar.

Figure S1

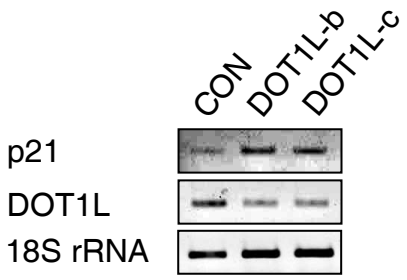

Figure S2

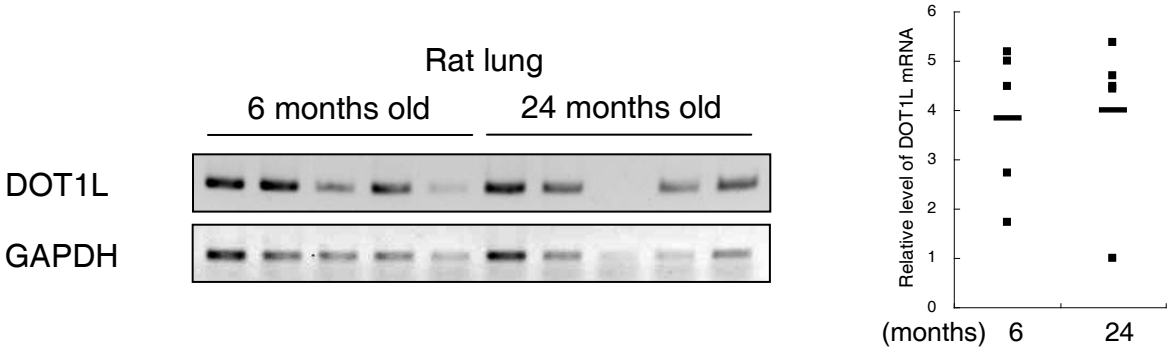

Figure S3