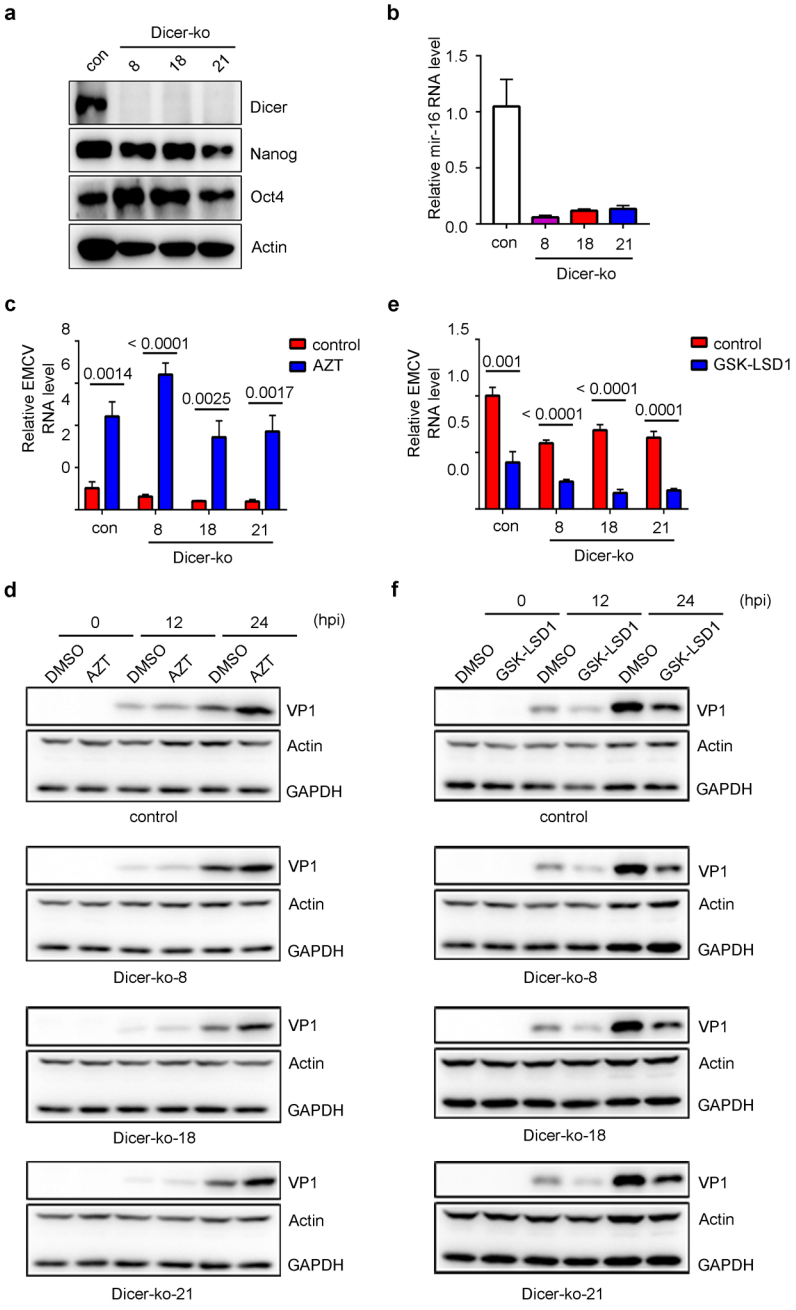
a
Dicer-ko
con
8
18
21
Dicer
Nanog
Oct4
Actin
b
Relative mir-16 RNA level
1.5
1.0
0.5
0.0
con
8
18
21
Dicer-ko
c
Relative EMCV RNA level
8
6
4
2
0
< 0.0001
0.0014
0.0025
0.0017
control
AZT
con
8
18
21
Dicer-ko
e
Relative EMCV RNA level
1.5
1.0
0.5
0.0
0.001
< 0.0001
< 0.0001
0.0001
control
GSK-LSD1
con
8
18
21
Dicer-ko
d
0
12
24
(hpi)
DMSO
AZT
DMSO
AZT
DMSO
AZT
VP1
Actin
GAPDH
control
VP1
Actin
GAPDH
Dicer-ko-8
VP1
Actin
GAPDH
Dicer-ko-18
VP1
Actin
GAPDH
Dicer-ko-21
f
0
12
24
(hpi)
DMSO
GSK-LSD1
DMSO
GSK-LSD1
DMSO
GSK-LSD1
VP1
Actin
GAPDH
control
VP1
Actin
GAPDH
Dicer-ko-8
VP1
Actin
GAPDH
Dicer-ko-18
VP1
Actin
GAPDH
Dicer-ko-21

Fig. S8: The virus restriction role of the endogenous RTase in mESCs is independent of RNAi pathway.

a, Generation of Dicer knock-out E14TG2a cell lines by CRISPR/Cas9 technology. **b**, The successful blockage of dicer activity in the knock-out cell lines. The miRNA-16 expression level was detected by qPCR in the indicated cell lines. **c**, **d**, The control and Dicer knock-out cells were pre-treated with 100 μM AZT and infected with EMCV (moi=1) for 24 h. The RNA level of EMCV was determined by qRT-PCR (**c**) and the protein level of EMCV VP1 was analyzed by immunoblotting (**d**). Actin and GAPDH were used as loading control. **e**, **f**, The control and Dicer knock-out cells were pre-treated with 50 μM GSK-LSD1 and infected with EMCV (moi=1) for 24 h. The RNA level of EMCV was determined by qRT-PCR (**e**) and the protein level of EMCV VP1 was analyzed by immunoblotting (**f**). In **b**, **c**, **e**, the graphs represent means ± SD from three independent replicates measured in triplicate. Data in **d**, **f** are representative of three independent experiments.