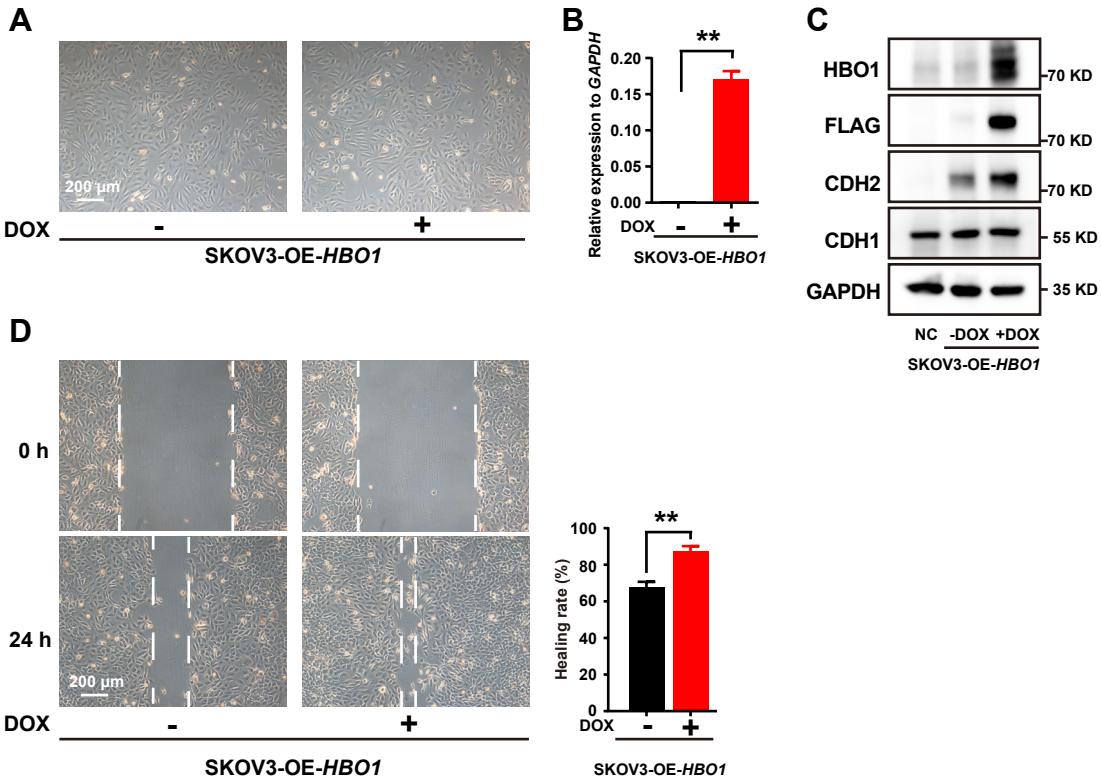
Supplemental Figure 1



Supplemental Figure 1. Overexpression HBO1 enhances metastasis ability of SKOV3 cells.

(**A**) The cell morphology was shown from representative images of SKOV3-OE-*HBO1* cells with or without Dox (scale bars: 200 μm). (**B**) *HBO1* Expression was detected in the indicated cells by RT-PCR (n = 3, $^{**}p<0.01$). (**C**) Western blot analysis of the expression of HBO1, FLAG (HBO1), epithelial marker (CDH1) and mesenchymal marker (CDH2) in the indicated cells. GAPDH was used as loading controls. (**D**) The cell morphology was shown from representative images of wound healing in SKOV3-OE-*HBO1* with or without Dox (scale bars: 200 μm). Quantitative analysis of the wound healing assay (n = 3, $^{*}p<0.05$).

Supplemental Table 1. List of primers

Gene	Forward primer(5'-3')	Reverse primer(5'-3')
HBO1-sh1	GCCCTTCCTGTTCTATGTTAT	ATAACATAGAACAGGAAGGGC
HBO1-sh2	GATTCCAGTCCTGTTCGAAAT	ATTTCGAACAGGACTGGAATC
GAPDH	GGAGCGAGATCCCTCCAAAAT	GGCTGTTGTCATACTTCTCATGG
TGFB1	GGCCGGGGAGAGTGCAGAAC	TGAGCCTCAGCAGACGCAGC
SNAI2	CAGACCCGCTGGCAAGATG	GGAATGGAGCAGCGGTAGTC
ZEB1	GTGACGCAGTCTGGGTGTAATCG	GTGGGACTGCCTGGTGATGCT
CDH2	AGCCTCCAACTGGTATCTTCATTATCAA	GTCCCATTCCAAACCTGGTGTAAGA
VIM	ATGTTTCCAAGCCTGACCTCACG	TACTCAGTGGACTCCTGCTTTGCC
FN1	TGACCGAAATCACAGCCAGTAGC	AAGCAGGTCAGGGATGTTCACAG
CDH1	GCTCACATTTCCCAACTCCTCTCC	GTCACCTTCAGCCATCCTGTTTCTC
CGN	CAAATCAACTCCAGACCTCCTTCG	CTCCAGCACCAAACTAACCTTCCTC
KLK10	CAAGGCGAACGGATGAGCA	GAGCACAGCGGTAGGGAAG
HBO1	AAGAGCCAAACGATACTCCGCC	TGTTGTCCGCCTCTGTCATAACATAG
HLA-A	AGGGAGTTACACTCAGGCTGCAAG	CACAGGTCAGCGTGGGAAGAGG
HLA-B	GAATGTGTCTGCGTCCCTGTTAGC	TTCAGTAGGGAAGTAAGAAGTTGCAGC
HLA-C	TTTGCTATGAAGCGTTGATGGAT	TTCTGGAAGGTTCTCAGGTCTTTATT
PD-L1	GCACTGACATTCATCTTCCGTTTA	CATTCCTTCCTCTTGTCACGCTC

Supplemental Table 2. List of antibodies used in this study

Application	Name of Antibody	Company (Cat. No., RRID)
WB	HRP-Conjugated GAPDH Monoclonal Antibody	Proteintech (HRP-60004, AB_2737588)
WB	Mouse anti-E-Cadherin	BD biosciences (610182, AB_397581)
WB	Rabbit anti-N-Cadherin (D4R1H)	Cell Signaling Technology (13116, AB_2687616)
WB	Rabbit anti-HIST3H3 (H3)	Abcam (ab1791, AB_302613)
WB	Rabbit anti-Histone H3 (acetyl K23)	Abcam (ab177275, AB_2927706)
WB/CUT&Tag	Rabbit anti-MYST2 (HBO1)	Cell Signaling Technology (58418S, AB_2799547)
WB/CUT&Tag	Rabbit anti-Histone H3 (acetyl K14)	Cell Signaling Technology (7627S, AB_10839410)
CUT&Tag	Rabbit anti-SMAD4	Cell Signaling Technology (46535, AB_2736998)
FACS	APC Mouse anti-Human CD279	BD biosciences (558694, AB_1645458)
FACS	FITC Mouse Anti-Human HLA-ABC	BD biosciences (555552, AB_395935)
FACS	APC Mouse Anti-Human CD274	BD biosciences (563741, AB_2738399)

Uncropped gels and blots

Figure 1D

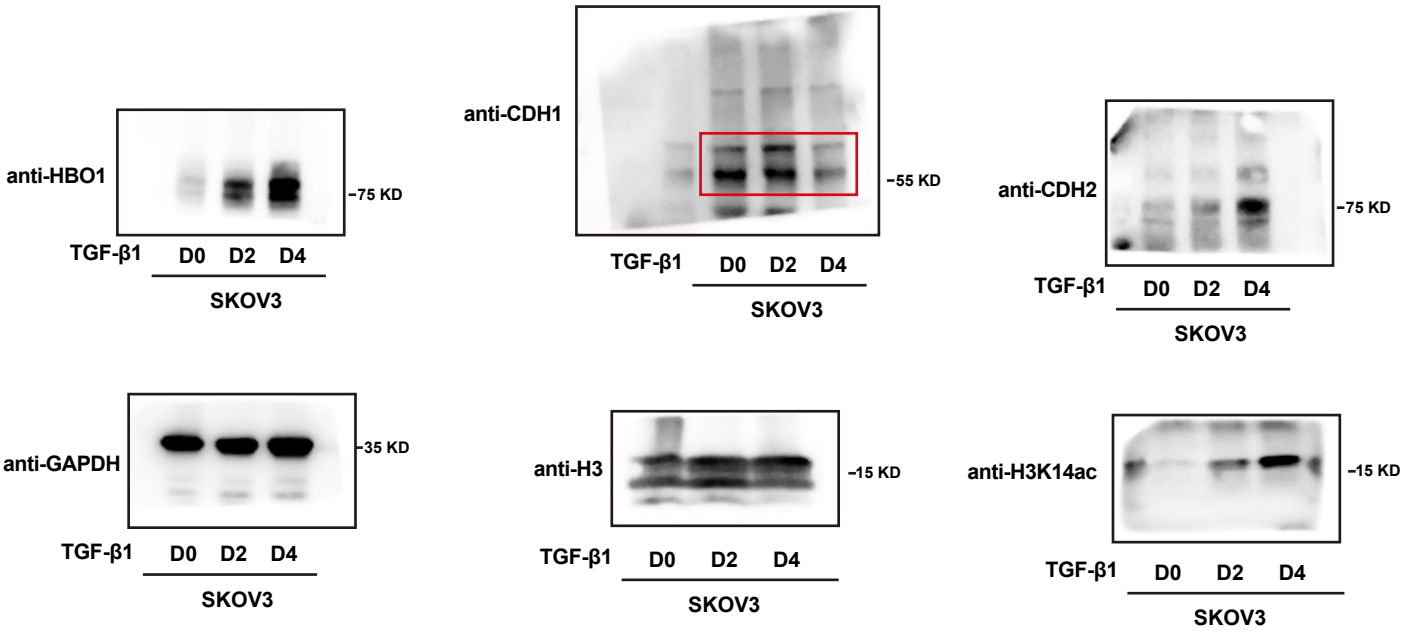


Figure 1H

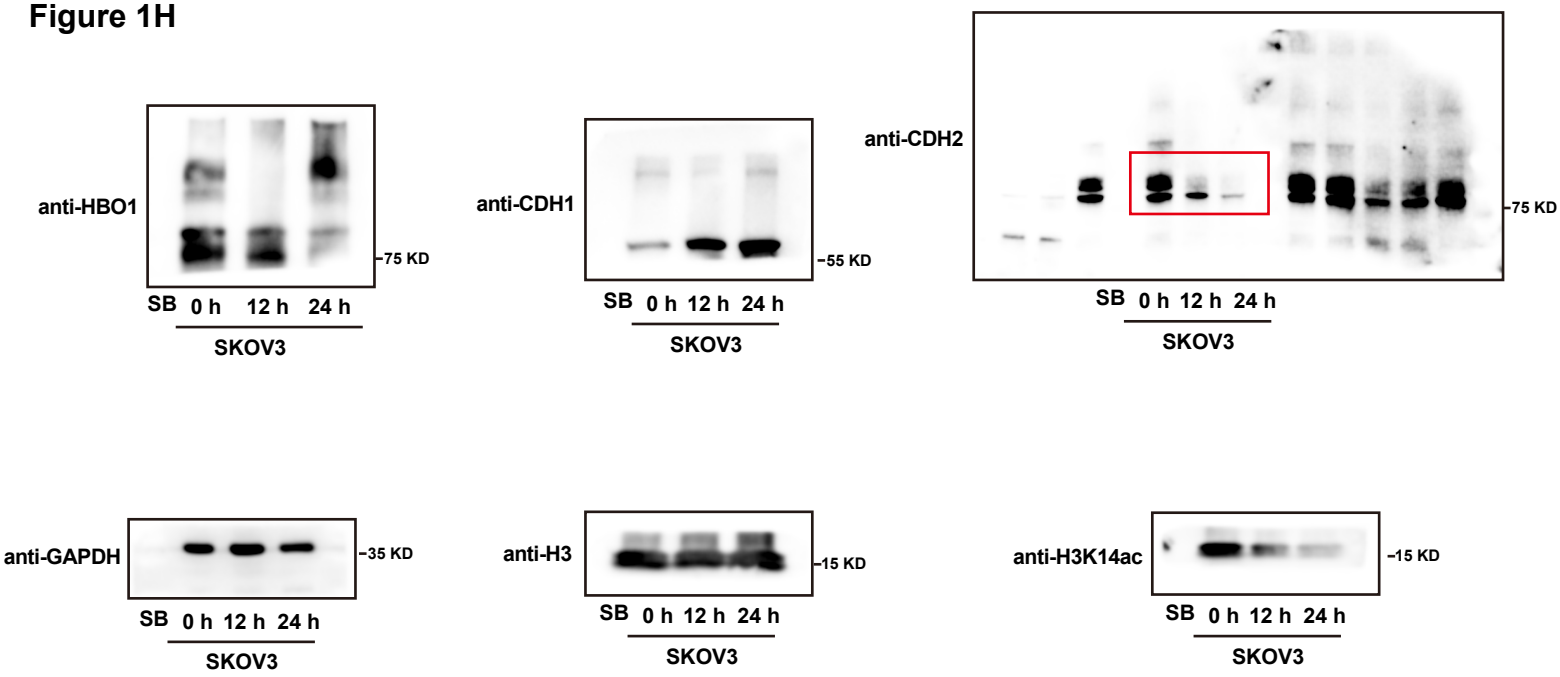


Figure 2B

Figure 2D

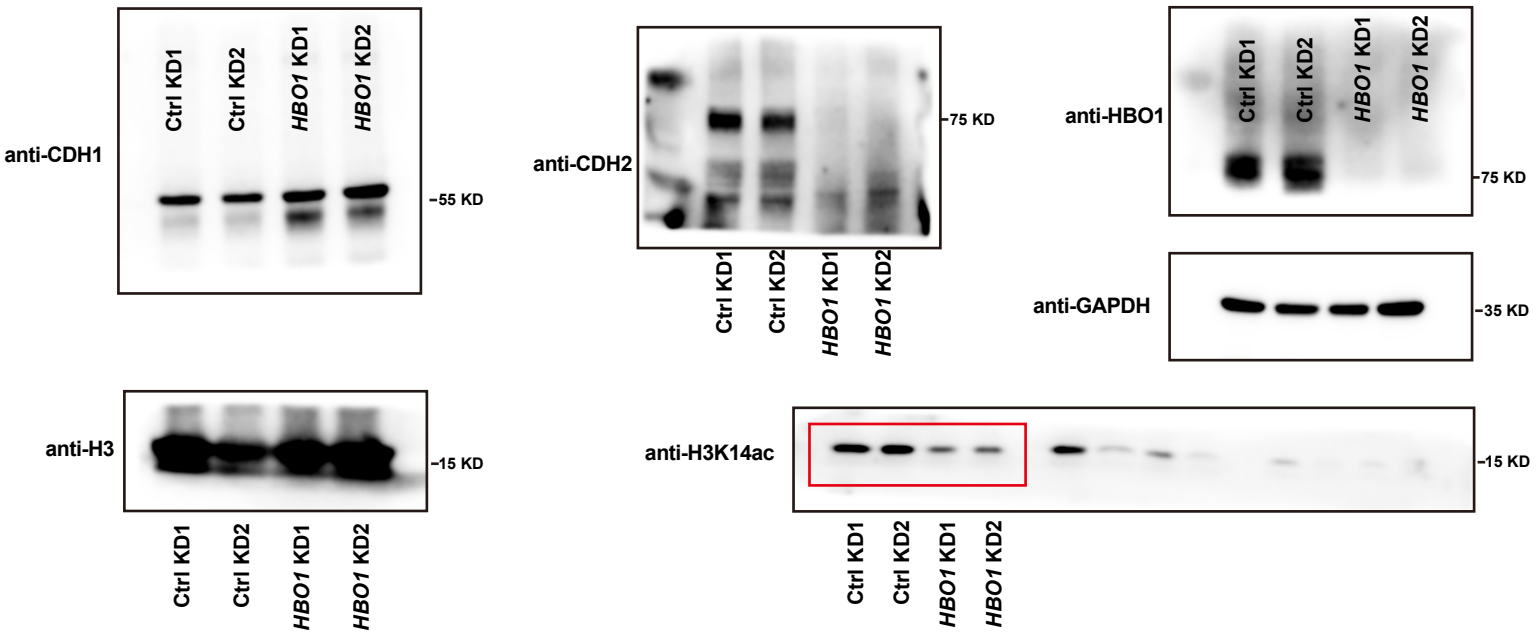
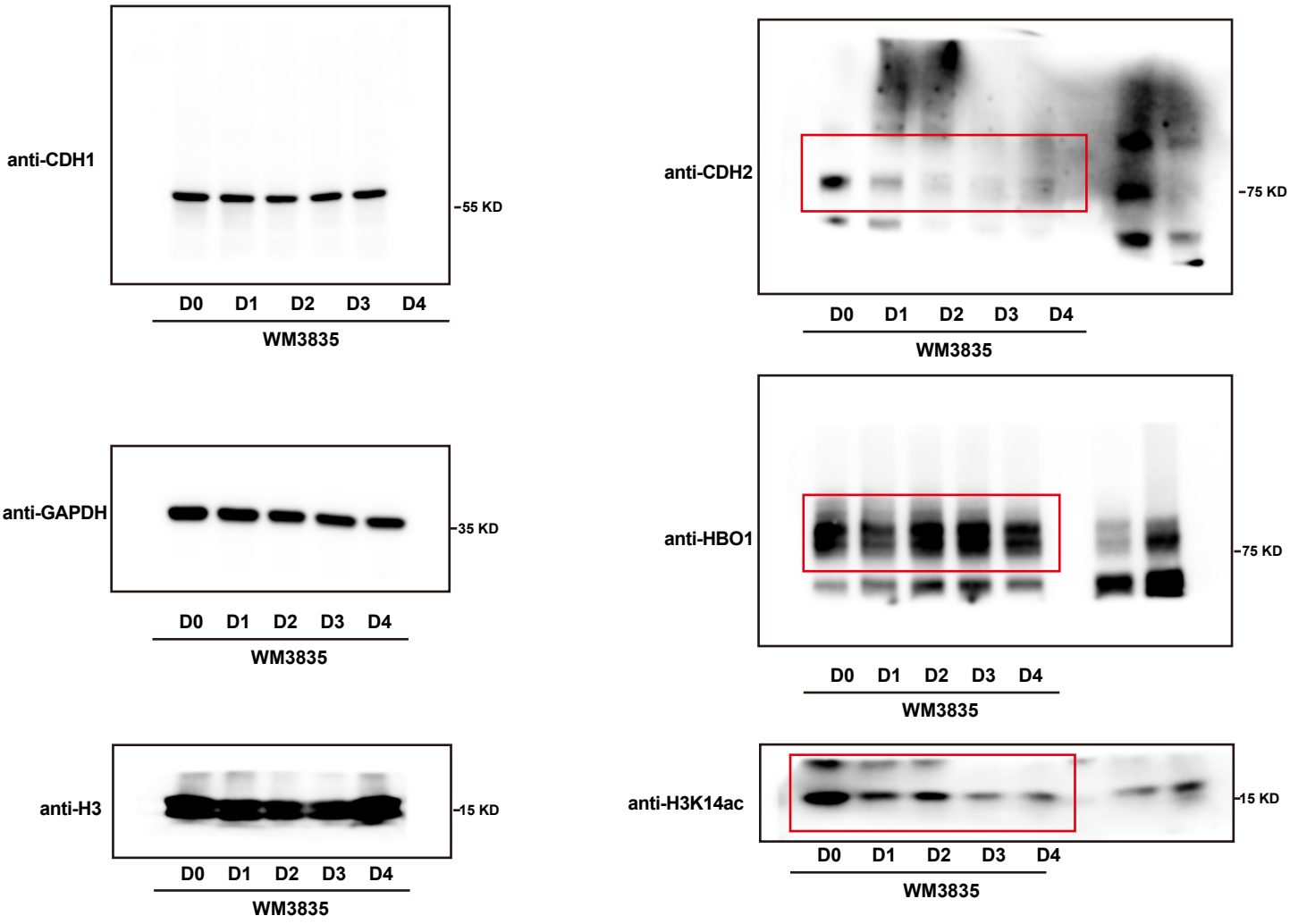


Figure 2H



Supplemental Figure 1C