Table S1. List of primers for semi-quantitative RT-PCR
We performed semi-quantitative RT-PCR using the following primers.

Figure S1. pME18Sneo-sHBZ activated TGF-β signaling
In 12-well plates, HepG2 cells were cotransfected with 3TP-Lux (0.5 μg), phRL-TK (2 ng), and pME18Sneo-sHBZ (0, 2, 5, 10, 20, 50, 100, and 200 ng). At 24 hours post-transfection, the cells were treated with or without TGF-β (10 ng/mL). After 24 hours, the cells were harvested and analyzed for luciferase activity.

Figure S2. HBZ did not influence the Smad3/c-Ski interaction
COS7 cells were cotransfected with mycHis-sHBZ (4 μg), FLAG-Smad3 (4 μg), and HA-c-Ski (4 μg). Cell lysates were subjected to immunoprecipitation using anti-FLAG followed by immunoblotting using anti-HA.

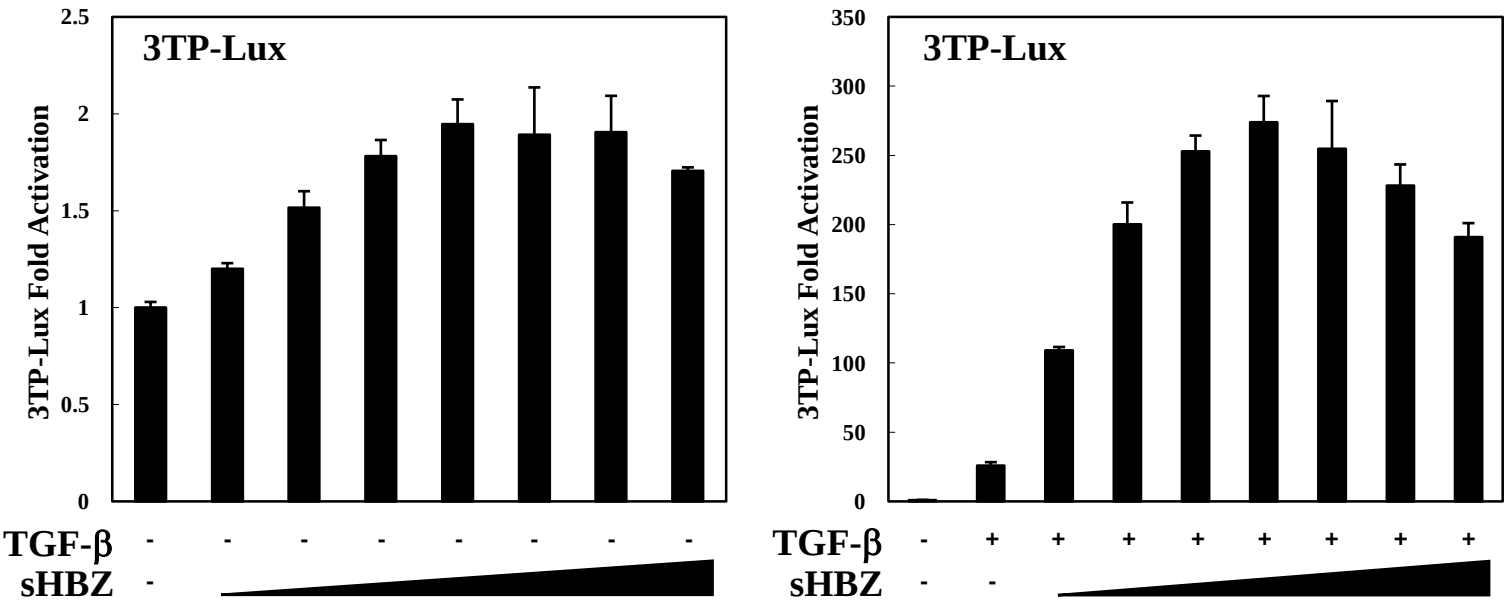
Figure S3. Expression of *Smad3* in ATL and HTLV-1 immortalized cell lines
Semi-quantitative RT-PCR analysis of *Smad3* is shown in ATL and HTLV-1-immortalized cell lines. The expression of *GAPDH* is shown at the bottom as a control.

Figure S4. HBZ did not influence STAT5 signaling
In 12-well plates, 293T cells were cotransfected with pGL4-Jγ1 (0.4 μg), phRL-TK (1 ng), pCAGGS-WT-STAT5a (0.1 μg), pCAGGS-CA-STAT5a (0.1 μg), and pME18Sneo-sHBZ (0, 0.01, 0.03, 0.1 and 0.2 μg). After 48 hours, the cells were harvested, and luciferase activity was determined.

Human mRNA target	Primers
Smad3	F: aaggggctccctcatgtcat R: ggattcggggataggtttgg
GAPDH	F: gcagggggggagccaaaaggg R: tgccagccccagcgtcaaag

Mouse mRNA target	Primers
PDGFB	F: gagtcgagttggaaagctcatctc R: gatgtcccaggacttctagtcaca
SOX4	F: actggggttgtacgaagatgga R: caatagtccgggaattcgaagtgg
CDKN1A	F: tgattgcgatgcgctcatgg R: gaccaatctgcgcttggagt
CDKN2B	F: cagatcccaacgccctgaac R: cctgctcttcagccaagtctac
CTGF	F: cccaactatgatgcgagccaa R: catcggggcatttgaactcca
FOXP3	F: ctacagtgcccctagtcatggt R: tttgccagcagtgggtagga
RUNX1	F: caccgtctttacaaatccgccacaa R: agccgttgagagtcgactggaaag
MYC	F: ttctccccaagggaagacgatg R: tcgttgagcgggtagggaaa
TSC22D1	F: tctggtgcaagtgtggtagcta R: ttgatcctgagccctgggat
ID2	F: gagtctgctctacaacatgaacgac R: ctgcaaggacaggatgctgatg
Actin	F: ccagagcaagagaggtatcc R: ctgtggtggtgaacgctgtag

Table S1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1.5
1
0.5
0
TGF-β - - - - - - - -
sHBZ -
3TP-Lux
3TP-Lux Fold Activation
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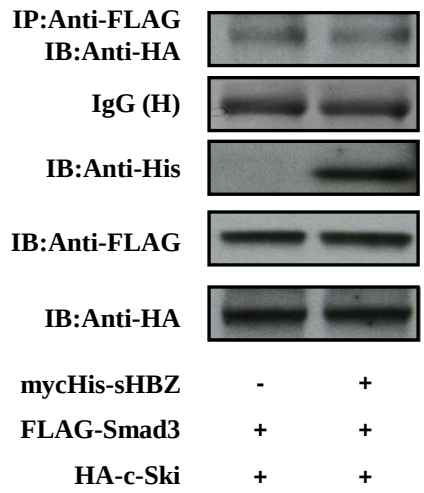
300
250
200
150
100
50
0
TGF-β - + + + + + + + +
sHBZ - -

Figure S1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IB:Anti-HA
IgG (H)
IB:Anti-His
IB:Anti-FLAG
IB:Anti-HA
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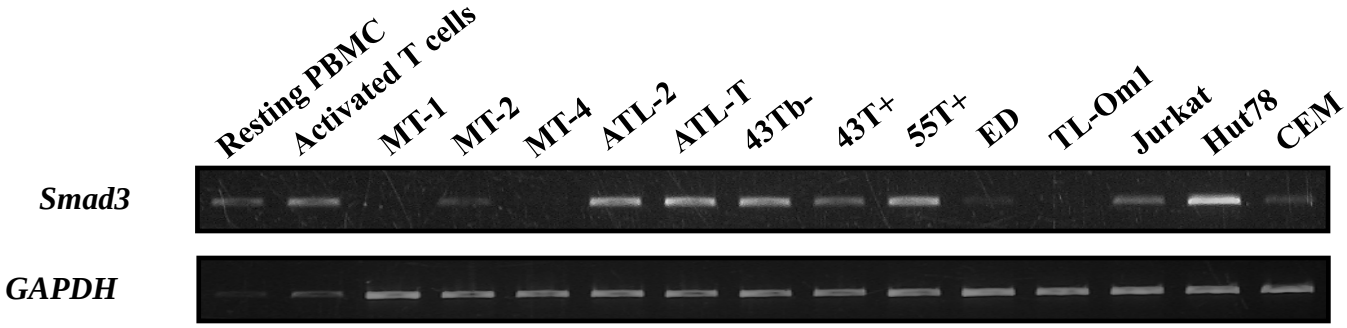
FLAG-Smad3 + +
HA-c-Ski + +

Figure S2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Activated T cells
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MT-2
MT-4
ATL-2
ATL-T
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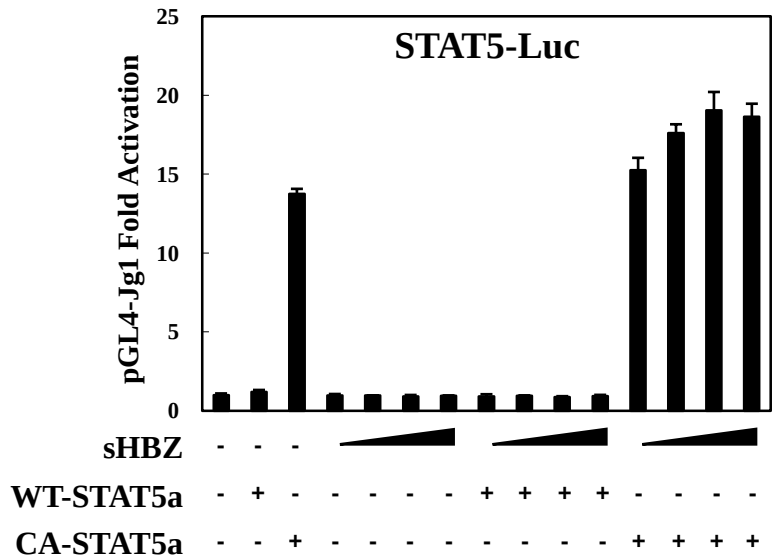
43T+
55T+
ED
TL-Om1
Jurkat
Hut78
CEM
Smad3
GAPDH

Figure S3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pGL4-Jg1 Fold Activation
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20
15
10
5
0
sHBZ - - -
WT-STAT5a - + - - - - - + + + + - - - -
CA-STAT5a - - + - - - - - - - - + + + +

Figure S4