Supplementary informations

**Recombinant TAT-Thymosin β-4 promotes angiogenesis by activating VEGFR2 Signaling pathway**

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**Original Images of Western blotting**

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| Figure 4at-VEGFR2Primary antibody – Sigma, Cat# SAB4501645Titer – 1:1000 in 3% TBST |  |
| Figure 4ap-VEGFR2Primary antibody – Merk, Cat# PS1013Titer – 1:1000 in 3% TBST  |  |

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| Figure 4aAng1. Primary antibodyMillipore, Cat# AB3120Titer – 1:1000 in 3% TBSTAng2. Primary antibodyMillipore, Cat# AB3121Titer – 1:1000 in 3% TBST |  |
| Figure 4aBeta actinPrimary antibody – Sigma, Cat# A5441Titer – 1:5000 in 3% TBST |  |
| Figure 5aVEGFaPrimary antibody – Santacruz, Cat# sc7269Titer – 1:1000 in 3% TBST |  |

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| Figure 5aPonceau S stainingStandard for cell culture media protein because cell culture media contains no beta actin |  |
| Figure 5bVEGFaPrimary antibody – Santacruz, Cat# sc7269Titer – 1:1000 in 3% TBST  |  |
| Figure 5bp-VEGFR2Primary antibody – Merk, Cat# PS1013Titer – 1:1000 in 3% TBST  |  |

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| Figure 5bt-VEGFR2Primary antibody – Sigma, Cat# SAB4501645Titer – 1:1000 in 3% TBST  |  |
| Figure 5bp-AKTPrimary antibody – CST, Cat# 9272Titer – 1:1000 in 3% TBST |  |
| Figure 5bp-AKTPrimary antibody – CST, Cat# 9271Titer – 1:1000 in 3% TBST |  |

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| Figure 5bp-ERKPrimary antibody – CST, Cat# 9102Titer – 1:1000 in 3% TBST |  |
| Figure 5bt-ERKPrimary antibody – CST, Cat# 9101Titer – 1:1000 in 3% TBST |  |
| Figure 5bCD31Primary antibody – abcam, Cat# ab28364Titer – 1:1000 in 3% TBST |  |

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| Figure 5bBeta actinPrimary antibody – Sigma, Cat# A5441Titer – 1:5000 in 3% TBST  |  |
| Figure 6aApoptosis Western blot Cocktail(Cleaved PARP, beta actin, procaspase3, cleaved caspase3)Primary antibody – abcam, Cat# ab136812Titer – 1:1000 in 3% TBST |  |